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THE FRAMINGHAM STUDY

An Epidemiological Investigation
of
Cardiovascular Disease

Section 23

Serum Cholesterol, Systolic Blood Pressure and Framingham Relative Weight as Discriminators of Cardiovascular Disease

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THE FRAMINGHAM STUDY

An Epidemiological Investigation of Cardiovascular Disease

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Section 23: Serum cholesterol, systolic blood pressure and Framingham relative weight as discriminators of cardiovascular disease.

Tavia Gordon and Joel Verter

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APPENDIX TABLES

Serum Cholesterol, Systolic Blood Pressure and Framingham Relative Weight as Discriminators of Cardiovascular Disease

In the first paper from the Framingham Study dealing with factors related to the incidence of cardiovascular disease, a multivariate analysis of Framingham relative weight, systolic blood pressure and serum cholesterol was undertaken. (See 11-1, Ref. 6). This dealt with the first four years of CHD incidence, in men 45-62 at entry. Since then, additional analyses of the same factors as well as of other factors have been published. In this section we take a systematic look at the relation of these three factors to all the various cardiovascular outcomes under study and (insofar as sufficient data are available) consider all age-sex groups.

The analytical procedure used is discriminant analysis, of the usual type. There are some peculiarities, however.

All incidence occurring between entry and Exam 2 is omitted. This is not as profligate as it seems. Many persons did not have a serum cholesterol determination at Exam 1; moreover, the measurement of serum cholesterol was not under good control at any time during the first examination. A strict prospective approach to the data which included serum cholesterol as a variable would therefore result in missing most incidence between Exams 1 and 2.

Another argument might be made for beginning a study of incidence at Exam 2. Some few of the cases defined as "incidence" between Exams 1 and 2 probably were pre-existing disease but too poorly diagnosed at entry to be so designated. There is probably some minor advantage in this additional screening for pre-existing disease.

In any event, what is done in the analysis is this: The population is broken up into 4-year age groups at entry. The youngest age group at entry was 28-31 years of age. This group, to follow it for illustrative purposes, aged approximately two years between examinations. By Exam 6 it was 38-41 years old. The next age group, 32-35 years old at entry, were 38-41 years of age at Exam 4. The next group, 36-39 years of age at entry, were 38-41 years old at Exam 2. These three cohorts of persons 38-41 years of age are completely distinct groups as defined. All measurements made at the "initial" examination for these cohorts (in this context, Exam 2, 4 or 6) are measurements of 38-41 year-old individuals.

To retain the same follow-up for all the cohorts each of these groups are followed only 4 years. This means that none of the persons at the time disease developed were older than 45. Since age at the time of event is, generally speaking, the strongest of all factors related to incidence, this narrowing of the age span over which persons are exposed to risk considerably reduces the risk of analytical artifacts associated with age.

For purposes of discriminant analysis persons free of disease at Exam 2, 4 or 6 are designated cases if they develop the disease in the subsequent 4 years. Where there are diagnostic subgroups, as in CHD, the roster of cases for any subdiagnosis is partly determined by the length of follow-up. For example, if a person is free of CHD at Exam 2, develops AP by Exam 3 and MI between Exams 4 and 5 he will be counted as an

AP after Exam 2 but (because he has CHD at Exam 4) will not be at risk of MI after Exam 4.

It should be noted that while a person may appear in a specified age group only once, he may appear in three different age groups provided he came in for examination at Exams 2, 4 or 6 and was free of the disease on all 3 examinations. Thus, adjacent age groups are not statistically independent, although the extent of interdependence is quite minimal.

While the level of cholesterol, blood pressure and relative weight does vary somewhat from one examination to another (Figures 23-1 to 23-4, Tables 3-4, 3-9, 3-11, 4-4, 4-9, 4-11), both subsequent cases and subsequent non-cases are measured the same way and are therefore always directly comparable. However, the pooling of data from different cohorts must take into account these changes in level. This can be done in a number of ways. What was actually done was this: For the computation of mean differences all cases were pooled and all non-cases were pooled without any weighting, it being assumed that age-specific incidence following each of the examinations was the same. Variances and covariances, however, were computed separately for each of the cohorts and the within-cohort values were combined. The computation assumes that variances and covariances are the same for cases and non-cases. As may be judged from the data this was not always strictly true. We have no reason to believe, however, that this has misled us at any point in the subsequent analyses.

The analysis also assumes that the various factors have a multivariate normal distribution, which is only approximately true. However, there is considerable evidence that Fisher's discriminant function is quite robust even against major deviations from multivariate normality.

Fig. 23-1 MEAN FRAMINGHAM RELATIVE WEIGHT BY TIME OF DETERMINATIONS (IN QUARTERS)

FRAMINGHAM STUDY, 1950-1964

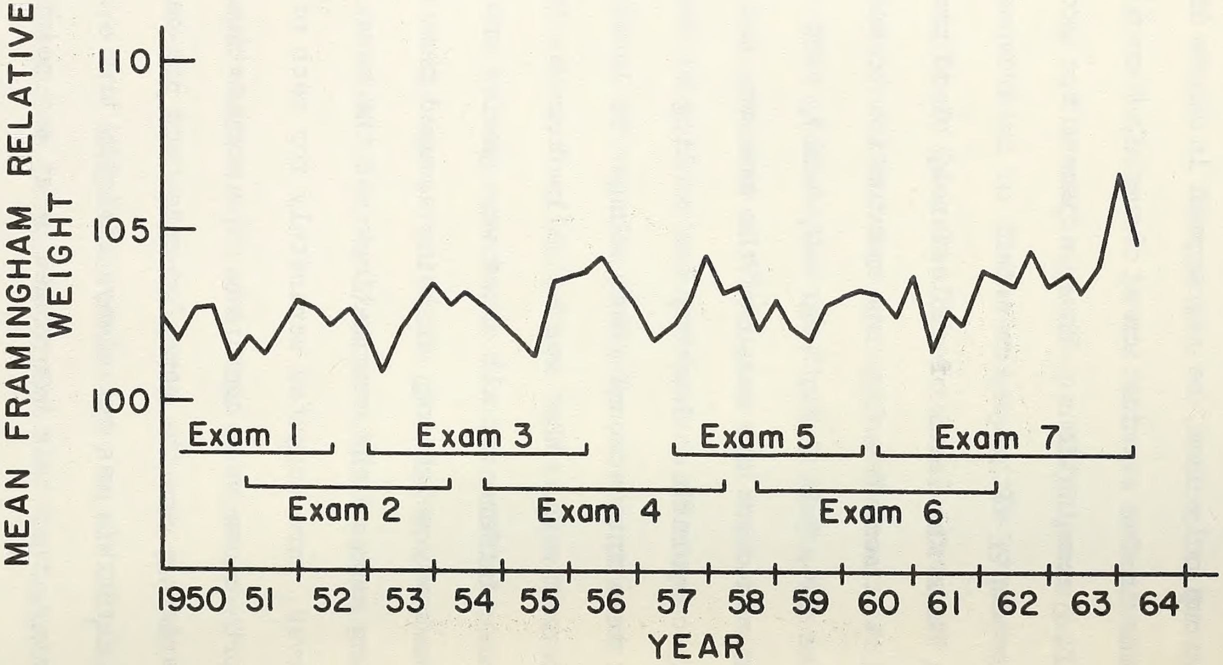


Fig. 23-2 MEAN SERUM CHOLESTEROL LEVEL BY TIME OF DETERMINATION (IN QUARTERS)

FRAMINGHAM STUDY, 1950-1964

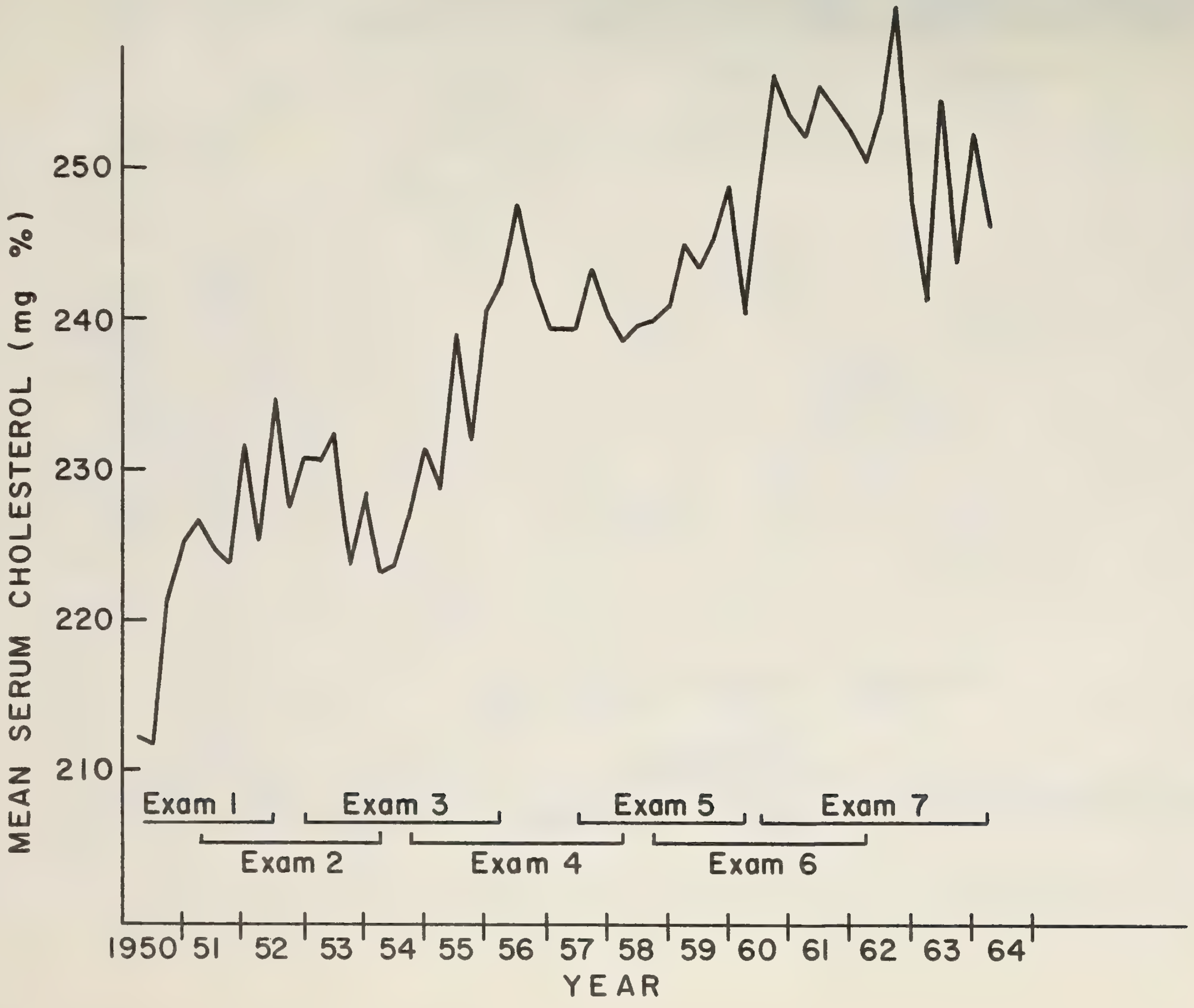


Fig. 23-3 MEAN SYSTOLIC BLOOD PRESSURE BY TIME OF DETERMINATIONS
(IN QUARTERS)

FRAMINGHAM STUDY, 1950-1964

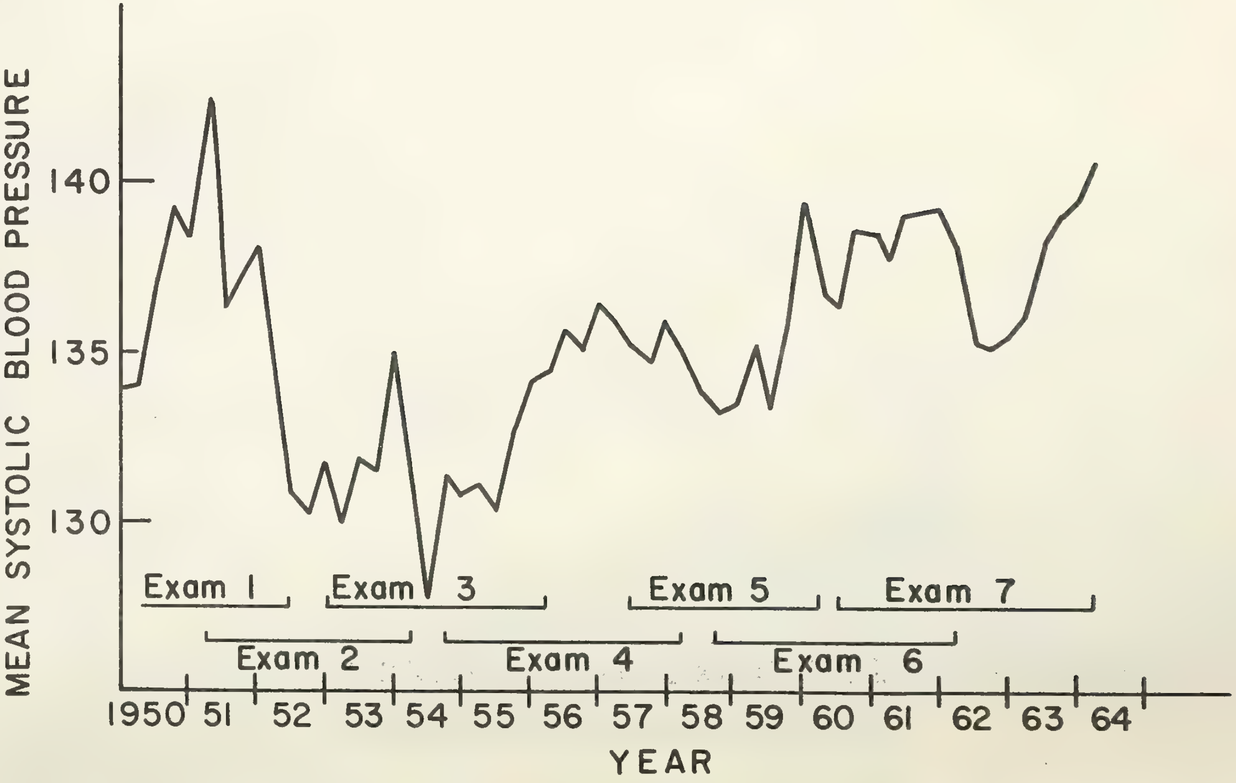
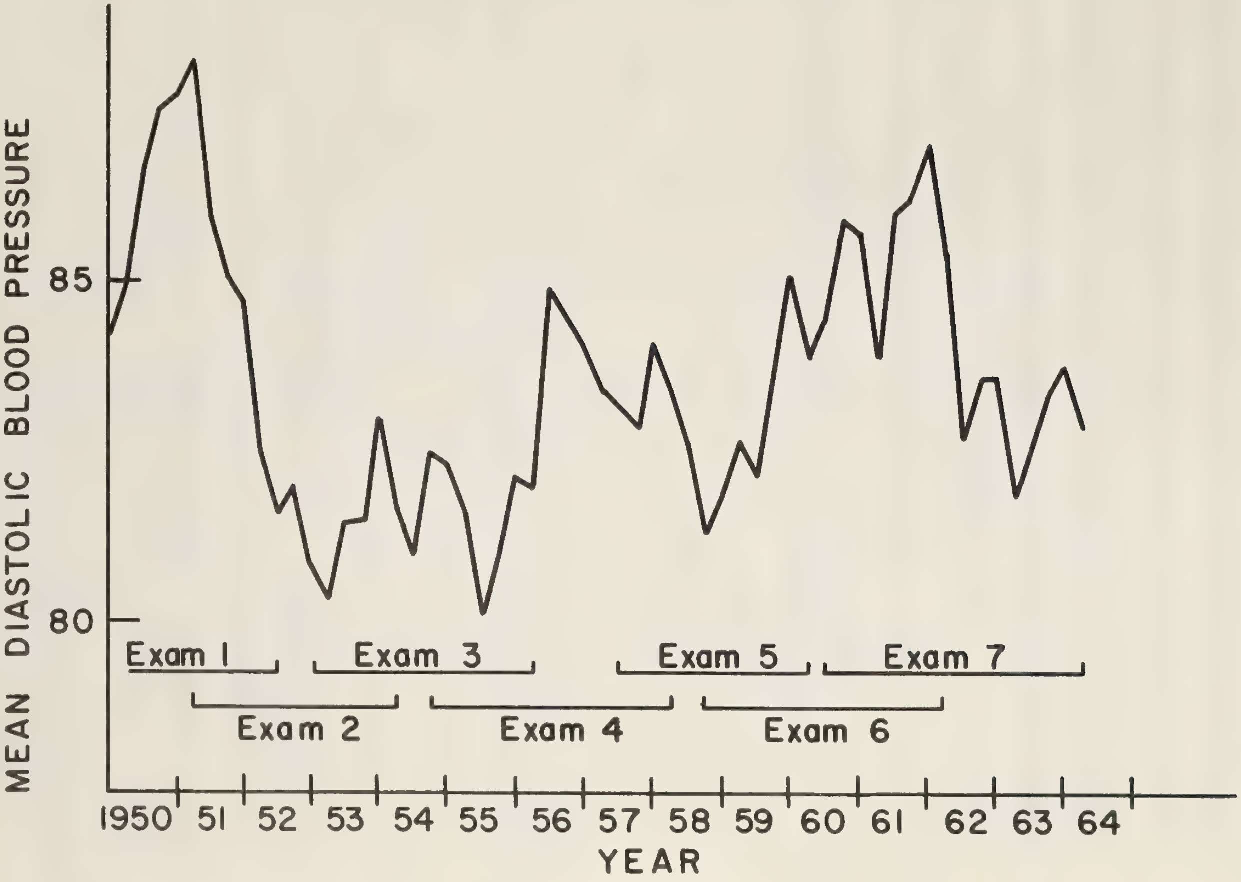


Fig. 23-4 MEAN DIASTOLIC BLOOD PRESSURE BY TIME OF DETERMINATIONS (IN QUARTERS)

FRAMINGHAM STUDY, 1950-1964



Discrimination

What is presented in the following account is a straightforward summary of the findings in terms of the discriminant function itself. Discrimination, however, can be statistically significant without being especially impressive. Consider, for example, the data for women 58-61 years of age, where discrimination for CHD is especially good. We could prepare a table for this group that looked like this:

Discriminant values	CHD in next 4 years		
	Yes	No	Total
High	7	29	36
Not-high	29	670	699
Total	36	699	735

If discrimination were perfect, all 36 women with the highest discriminant values would have CHD and none with lower discriminant values would have the disease. In fact, 7 of the 36 with the high values (19.4 percent) had CHD and 29 of the remaining 699 (or 4.1 percent) had CHD. From some points of view this is not very satisfactory. On the other hand it does suggest that we are 5 times as likely to find a case of CHD developing among women with high discriminant values as among other women in this age group. (The ratio of 4.7--7/36 ÷ 29/699--has an approximate 95% confidence interval from 2.2 to 10.1).

When we speak about "finding a case of CHD" we imply prediction.

Actually, all we have presented is an estimate based on a single sample. How this estimate would fit a different set of data is another matter. Suppose, however, that we estimate the discriminant weights on the basis of the first (Exam 2) cohort and apply this estimate to the next two cohorts (Exams 4 and 6). For this purpose let us use as cutting points the upper and lower deciles of the discriminant function. For the first cohort the data would look like this:

First cohort

Discriminant values	CHD in next 4 years			Incidence (%)
	Yes	No	Total	
Top decile	4	20	24	16.7
Deciles 2-9	6	186	192	3.1
Bottom decile	1	23	24	4.2
Total	11	229	240	

The table would look like this if the first cohort's discriminant weights were used with data for the next two cohorts:

Next two cohorts

Discriminant values	CHD in next 4 years			Incidence (%)
	Yes	No	Total	
Top decile	7	43	50	14.0
Deciles 2-9	18	378	396	4.5
Bottom decile	0	49	49	0.0
Total	25	470	495	

Repeating the same exercise for men 58-61 the tables would look as follows:

First cohort (actual fit)

Discriminant values	CHD in next 4 years Yes	No	Total	Incidence (%)
Top decile	6	11	17	35.3
Deciles 2-9	11	125	136	8.1
Bottom decile	2	15	17	11.8
Total	19	151	170	

Next two cohorts

Discriminant values	CHD in next 4 years Yes	No	Total	Incidence (%)
Top decile	5	35	40	12.5
Deciles 2-9	24	290	314	7.6
Bottom decile	1	38	39	2.6
Total	30	363	393	

These data illustrate the predictive meaning of the discriminant values. While the specific findings cannot be extrapolated freely to other data the general power of these discriminant values for prediction appears surprisingly good.

With this brief introduction to the methodology we can now turn to the specific analytical results. It must be emphasized, however, that in the case of weak relationships some other analytical technique might conceivably lead to different conclusions.

1. Coronary Heart Disease

In general, the group of variables Framingham relative weight, systolic blood pressure and serum cholesterol allows for discrimination between persons who do and persons who do not develop CHD in the 4 years following measurement. While discrimination is not statistically significant in every age-sex group it seems reasonable to regard the exceptions as due to sampling variability, save only those for men over 61 years where the variables appear unable to predict CHD.

In all older age groups in women, beginning with the age group 54-57 years we could discriminate women who develop CHD practically as well on the basis of systolic blood pressure alone as with all three variables combined.

The discriminant role of FRW in women is generally weak. In two age groups (46-49 and 58-61) it reaches statistical significance when considered by itself but when considered as a discriminant weight in the 3-variable function it is statistically significant only for the age group 46-49 and nearly significant in the age group 50-53.

For men the ability to discriminate subsequent CHD on the basis of these variables is slightly less than for women, and the roles of the three variables are somewhat different. Up to the age group 58-61 the dominant discriminator of the three is serum cholesterol. In the older age groups (62-65 and 66-69) neither serum cholesterol nor the other two variables, nor all three variables, have any discriminating power.

FRW in men plays an uncertain role. By itself it is a statistically significant discriminator in the age range 46-61 but not at younger or older ages. In none of these age groups, however, was its discriminant weight in the 3-variable function statistically significant. One could generally discriminate CHD in all age groups about as well with systolic blood pressure and serum cholesterol alone as with all three variables. This is not to say, of course, that the data are inconsistent with a weak association of FRW with CHD independent of the other two variables. (Table 23-A, Figure 23-5)

Table 23-A

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Coronary Heart Disease

A. Chi-square values for distance

	MEN					WOMEN				
	Number of cases	All three	Univariate			Number of cases	All three	Univariate		
Age			W	S	C			W	S	C
38-41	13	12.2*	2.3	4.6	8.5*	1	---	---	---	---
42-45	25	5.2	0.3	0.1	5.1*	9	21.9**	0.5	12.3**	11.1**
46-49	27	13.1**	6.2	1.5	9.0*	8	13.2**	8.1**	0.1	5.2*
50-53	42	22.1**	6.9	8.1*	13.2**	10	7.7	0.7	2.8	3.7
54-57	54	18.1**	3.9	9.1*	9.0*	25	11.5**	1.5	9.7**	2.6
58-61	49	23.0	4.9	16.3*	5.3	36	28.1**	4.5	27.7**	0.0
62-65	23	2.0	0.0	1.2	0.7	22	6.5	0.0	5.2*	1.1
66-69	11	3.6	0.1	2.4	0.8	19	8.6*	0.6	7.9**	0.7

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	13	5.6	9.7	35.2	1	---	---	---
42-45	25	1.6	0.8	20.4	9	3.9	22.8	45.4
46-49	27	6.6	4.4	23.9	8	17.7	2.6	36.6
50-53	42	5.3	9.6	22.9	10	-4.7	12.8	26.3
54-57	54	3.6	9.9	16.3	25	4.5	16.3	14.9
58-61	49	4.0	14.9	13.7	36	6.7	23.6	0.5
62-65	23	-0.1	5.9	7.3	22	-0.2	12.3	-9.5
66-69	11	-1.8	12.1	10.4	19	3.4	18.6	8.7

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	715	13	5	0	6	0	863	1	---	---	---	---
42-45	876	25	4	1	9	3	1115	9	3	0	5	0
46-49	842	27	6	0	9	0	1018	8	5	1	5	1
50-53	753	42	14	0	19	2	922	10	3	0	4	0
54-57	670	54	8	1	21	3	841	25	5	0	8	1
58-61	563	49	9	3	18	4	735	36	12	1	17	3
62-65	354	23	5	4	9	4	480	22	4	1	7	2
66-69	160	11	2	0	3	2	236	19	5	0	11	0
TOTAL			53	9	94	18			37	3	57	7

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

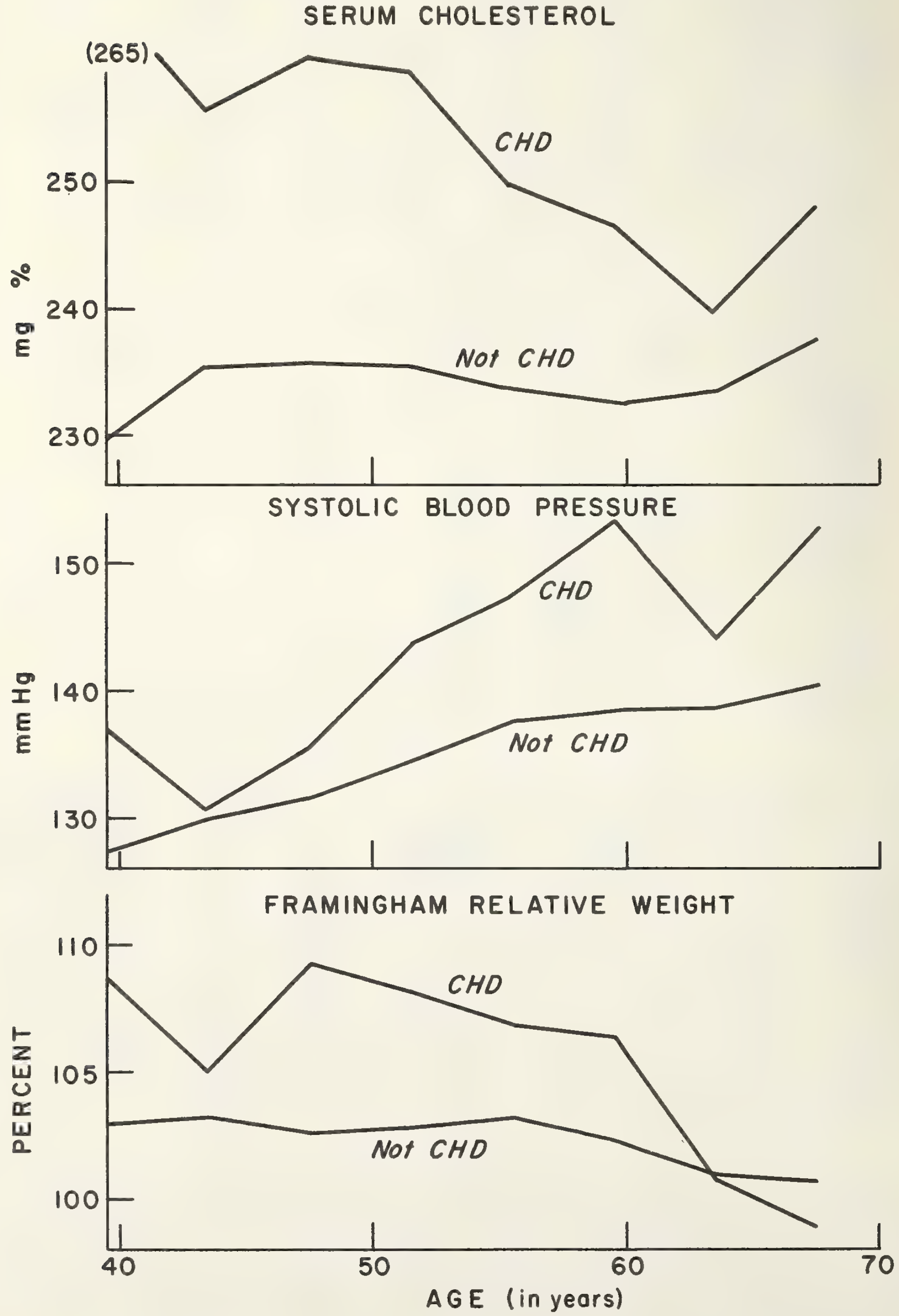
* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Fig. 23-5 MEAN LEVELS OF SERUM CHOLESTEROL, SYSTOLIC BLOOD PRESSURE AND FRAMINGHAM RELATIVE WEIGHT BY AGE IN MEN DEVELOPING AND NOT DEVELOPING CHD IN 4-YEAR INTERVALS

FRAMINGHAM STUDY: 14-YEAR FOLLOWUP



2-5. Separate Manifestations of CHD

myocardial infarction

angina pectoris

Most CHD cases in men occur in the form of MI (frequently preceded by AP) or as AP uncomplicated, with MI being the more common outcome during the 4-year follow-up period. In women, AP uncomplicated is the most common manifestation, MI being a relatively infrequent occurrence.

For men there is apparently little difference between MI and AP uncomplicated in the discriminating power of the triad FRW, systolic blood pressure and serum cholesterol--nor in the role each plays in discrimination.

The most direct way of looking at this is to attempt to discriminate between MI and AP. In order to obtain distinct groups AP is designated here only if there was no other form of CHD in the same 4-year period. (Since MI is relatively uncommon in women it would be difficult to draw any conclusions for this group; they are therefore not considered.)

The analysis shows that AP and MI cannot be distinguished from each other by these three variables. There is a suggestion in men 58-65 of some slight discrimination arising from the fact that AP cases may weigh slightly more than MI (the difference is not statistically significant), but essentially these two major manifestations of CHD are not distinguishable in men on the basis of relative weight, systolic blood pressure and serum cholesterol.

On the other hand, for CHD death in men (there were few such events in women) the power of these variables in discriminating appears to be greater than for cases not ending in CHD death. This may be seen if we combine the results for the age groups 54-57 and 58-61 and look at the ratio of true positives to false positives. (For this purpose we define "positives" by the highest discriminant values and make a cut on the discriminant scale so as to have as many "positives" as there are diagnosed cases. A "true positive" is a diagnosed case with one of the highest discriminant values.) For MI and AP uncomplicated these ratios were, respectively, 2.1 and 3.1. For sudden and non-sudden CHD death they were 15.3 and 20.4, respectively. The improvement in discrimination seems to come primarily from the fact that systolic blood pressure has a greater association with subsequent CHD death. Still, even with very high discrimination only one CHD death in 6 occurs among those cases with the highest discriminant values. Since the zone of highest discriminant values is made to correspond to the relatively low level of incidence of these outcomes, it is naturally very narrow--the 17 highest values for sudden CHD death, the 12 highest for non-sudden CHD death.

Again this can be examined most directly by attempting to discriminate between fatal and non-fatal CHD. To do this all new cases of CHD occurring in a 4-year interval are separated into those cases eventuating in a CHD death in that interval and the remainder. We consider here only men in the age groups 54-57 and 58-61, for these are the only groups with a sufficient number of CHD deaths to be considered separately. If all three variables are taken into account, discrimination between fatal and non-fatal cases is statistically significant only for the age group 58-61. It is reasonable to conclude, however, that discrimination is possible for both age groups. The greatest contribution to discrimination is made by systolic blood pressure. Serum cholesterol makes no contribution at either age nor does the "significant" contribution of FRW in the age group 58-61 carry much conviction in face of the data for other age groups.

(Table 23-B through 23-G, Figures 23-6 through 23-11)

Table 23- B. Discriminant statistics for Framingham relative weight, systolic blood pressure and serum cholesterol in men: Framingham Study, 14-year follow-up

MI vs. AP

	Number of cases		Generalized	Mean Difference, MI-AP						Discriminant Weights		
				FRW		Systolic		Cholesterol				
Age	MI	AP	X^2	Diff.	X^2	Diff.	X^2	Diff.	X^2	FRW	Systolic	Cholesterol
38-41	5	2	--	---	--	---	--	---	--	---	---	---
42-45	16	4	1.493	-5.875	0.903	-4.125	0.159	-21.938	0.801	-4.356	-0.442	-0.877
46-49	12	9	0.995	-1.500	0.114	7.806	0.806	4.778	0.112	-1.632	2.045	0.195
50-53	19	12	0.470	-0.066	0.000	-5.667	0.390	-0.132	0.000	0.728	-1.136	-0.058
54-57	24	16	0.614	-2.229	0.298	-0.813	0.015	7.250	0.331	-1.386	0.093	0.467
58-61	26	13	2.970	-5.115	2.147	6.308	0.438	-12.538	0.496	-4.767	0.847	-0.362
62-65	11	8	2.177	-4.727	1.209	5.364	0.186	-0.977	0.003	-8.164	1.638	0.381
66-69	7	2	--	---	--	---	--	---	--	---	---	---

Table 23- C. Discriminant statistics for Framingham relative weight, systolic blood pressure and serum cholesterol in men: Framingham Study, 14-year follow-up

Fatal vs. Non-fatal CHD

	Number of cases		Generalized	Mean Difference, Fatal - Non-fatal CHD						Discriminant Weights		
				FRW		Systolic		Cholesterol				
Age	Fatal	Non-Fatal	X^2	Diff.	X^2	Diff.	X^2	Diff.	X^2	FRW	Systolic	Cholesterol
38-41	3	10	--	---	--	---	--	---	--	---	---	---
42-45	2	23	--	---	--	---	--	---	--	---	---	---
46-49	2	25	--	---	--	---	--	---	--	---	---	---
50-53	9	33	0.405	-2.566	0.240	0.293	0.001	8.626	0.204	-1.308	0.251	0.283
54-57	15	39	5.078	2.646	0.397	14.877	4.772*	5.010	0.200	0.691	2.901*	0.376
58-61	14	35	7.831*	7.400	4.117*	17.529	3.453A	9.843	0.398	5.728*	2.041A	0.015
62-65	8	15	4.132	-2.608	0.312	14.425	1.422	-15.008	0.878	-0.727	3.168A	-2.106
66	3	8	--	---	--	---	--	---	--	---	---	---

A Significant at level of 10%
* Significant at level of 5%

Table 23-D

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6

Framingham Study: Myocardial Infarction

A. Chi-square values for distance

	MEN					WOMEN				
	Number of cases	All three	Univariate			Number of cases	All three	Univariate		
Age			W	S	C			W	S	C
38-41	5	16.2*	0.1	6.8*	9.8*	0	---	---	---	---
42-45	16	3.0	0.4	0.0	2.1	3	---	---	---	---
46-49	12	5.6	2.1	1.7	3.6	2	---	---	---	---
50-53	19	4.8	2.4	0.5	3.0	2	---	---	---	---
54-57	24	6.6	0.1	1.1	5.9*	4	1.5	0.1	1.4	0.2
58-61	26	6.2	0.9	5.5*	0.7	7	1.5	0.6	1.3	0.0
62-65	11	2.4	0.2	0.6	1.5	4	14.2**	0.7	13.8**	0.3
66-69	7	6.7	0.1	4.4*	2.3	2	---	---	---	---

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	5	1.6	19.0	60.6	0	---	---	---
42-45	16	-2.3	0.4	16.3	3	---	---	---
46-49	12	5.7	6.9	22.6	2	---	---	---
50-53	19	4.6	3.4	16.1	2	---	---	---
54-57	24	0.9	5.0	19.4	4	2.9	15.4	10.7
58-61	26	2.3	11.7	6.6	7	5.3	11.7	2.6
62-65	11	-1.7	5.9	14.6	4	7.2	45.3	11.6
66-69	7	1.7	20.3	21.9	2	---	---	---

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	715	5	4	0	4	0	863	0	---	---	---	---
42-45	876	16	4	0	8	1	1115	3	---	---	---	---
46-49	842	12	2	0	6	0	1018	2	---	---	---	---
50-53	753	19	5	0	7	1	922	2	---	---	---	---
54-57	670	24	4	0	8	0	841	4	1	0	1	0
58-61	563	26	4	1	6	2	735	7	1	0	2	0
62-65	354	11	3	1	4	2	480	4	2	0	2	0
66-69	160	7	2	1	3	1	236	2	---	---	---	---
TOTAL			28	3	46	7			4	0	5	0

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Table 23-E

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: AP uncomplicated

A. Chi-square values for distance

	MEN					WOMEN				
	Number of cases	All three	Univariate			Number of cases	All three	Univariate		
Age			W	S	C			W	S	C
38-41	2	---	---	---	---	1	---	---	---	---
42-45	4	3.0	0.3	0.3	2.9	6	19.8	0.2	11.3	9.6
46-49	10	3.8	2.3	0.0	1.8	4	12.0	8.2	0.0	3.6
50-53	14	4.6	2.0	1.9	2.1	5	3.0	0.6	1.2	0.3
54-57	16	2.7	1.0	1.0	1.5	19	12.5	1.6	11.0	2.4
58-61	13	7.8	4.8	0.5	3.0	22	19.2	2.5	19.1	0.1
62-65	8	1.7	0.4	0.0	1.2	12	2.1	0.0	2.0	0.0
66-69	2	---	---	---	---	14	3.5	0.7	2.5	0.7

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	2	---	---	---	1	---	---	---
42-45	4	3.6	4.5	38.2	6	3.4	26.8	51.6
46-49	10	6.5	-1.0	17.3	4	25.0	2.1	42.7
50-53	14	4.8	8.0	15.9	5	-5.9	12.0	-10.0
54-57	16	3.2	5.8	11.8	19	5.2	19.8	16.3
58-61	13	7.5	5.0	19.3	22	6.3	25.0	2.5
62-65	8	3.1	0.3	15.5	12	0.2	10.2	0.6
66-69	2	---	---	---	14	4.3	12.3	9.7

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	715	2	---	---	---	---	863	1	---	---	---	---
42-45	876	4	1	0	2	0	1115	6	2	0	3	0
46-49	842	10	1	0	2	0	1018	4	3	0	3	0
50-53	753	14	4	0	7	2	922	5	1	0	3	0
54-57	670	16	3	1	6	3	841	19	5	0	7	0
58-61	563	13	5	1	5	1	735	22	6	1	12	3
62-65	354	8	2	0	3	1	480	12	3	1	4	2
66-69	160	2	---	---	---	---	236	14	2	0	6	0
TOTAL			16	2	25	7			22	2	38	5

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Table 23-F

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Sudden CHD Death

A. Chi-square values for distance

	MEN					WOMEN				
			Univariate					Univariate		
Age	Number of cases	All three	W	S	C	Number of cases	All three	W	S	C
38-41	2	---	---	---	---	0	---	---	---	---
42-45	2	---	---	---	---	0	---	---	---	---
46-49	1	---	---	---	---	0	---	---	---	---
50-53	5	10.2*	0.8	0.2	9.9**	2	---	---	---	---
54-57	10	18.2**	12.5**	9.2*	0.8	0	---	---	---	---
58-61	7	11.5**	3.5	7.8*	2.2	2	---	---	---	---
62-65	3	---	---	---	---	3	---	---	---	---
66-69	0	---	---	---	---	2	---	---	---	---

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	2	---	---	---	0	---	---	---
42-45	2	---	---	---	0	---	---	---
46-49	1	---	---	---	0	---	---	---
50-53	5	5.0	3.9	55.3	2	---	---	---
54-57	10	14.3	22.2	10.9	0	---	---	---
58-61	7	8.7	26.3	22.3	2	---	---	---
62-65	3	---	---	---	3	---	---	---
66-69	0	---	---	---	2	---	---	---

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	715	2	---	---	---	---	863	0	---	---	---	---
42-45	876	2	---	---	---	---	1115	0	---	---	---	---
46-49	842	1	---	---	---	---	1018	0	---	---	---	---
50-53	753	5	1	0	3	1	922	2	---	---	---	---
54-57	670	10	6	0	8	0	841	0	---	---	---	---
58-61	563	7	2	0	5	0	735	2	---	---	---	---
62-65	354	3	---	---	---	---	480	3	---	---	---	---
66-69	160	0	---	---	---	---	236	2	---	---	---	---
TOTAL			9	0	16	1			---	---	---	---

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Table 23-G

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Non-Sudden CHD Death

A. Chi-square values for distance

	MEN					WOMEN				
			Univariate					Univariate		
Age	Number of cases	All three	W	S	C	Number of cases	All three	W	S	C
38-41	1	---	---	---	---	0	---	---	---	---
42-45	0	---	---	---	---	1	---	---	---	---
46-49	1	---	---	---	---	1	---	---	---	---
50-53	4	2.3	0.0	2.0	0.1	0	---	---	---	---
54-57	5	13.2**	4.9	2.3	4.0*	1	---	---	---	---
58-61	7	11.5**	4.2	7.9*	1.3	3	---	---	---	---
62-65	5	2.2	0.2	0.6	1.3	1	---	---	---	---
66-69	3	---	---	---	---	3	---	---	---	---

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	1	---	---	---	0	---	---	---
42-45	0	---	---	---	1	---	---	---
46-49	1	---	---	---	1	---	---	---
50-53	4	0.5	15.1	-4.7	0	---	---	---
54-57	5	-12.7	15.8	34.4	1	---	---	---
58-61	7	9.5	26.5	17.3	3	---	---	---
62-65	5	-2.4	8.6	20.4	1	---	---	---
66-69	3	---	---	---	3	---	---	---

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	715	1	---	---	---	---	863	0	---	---	---	---
42-45	876	0	---	---	---	---	1115	1	---	---	---	---
46-49	842	1	---	---	---	---	1018	1	---	---	---	---
50-53	753	4	1	0	2	1	922	0	---	---	---	---
54-57	670	5	3	0	4	0	841	1	---	---	---	---
58-61	563	7	2	0	2	0	735	3	---	---	---	---
62-65	354	5	1	0	2	0	480	1	---	---	---	---
66-69	160	3	---	---	---	---	236	3	---	---	---	---
TOTAL			7	0	10	1			---	---	---	---

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Fig. 23-6 FRAMINGHAM RELATIVE WEIGHT: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

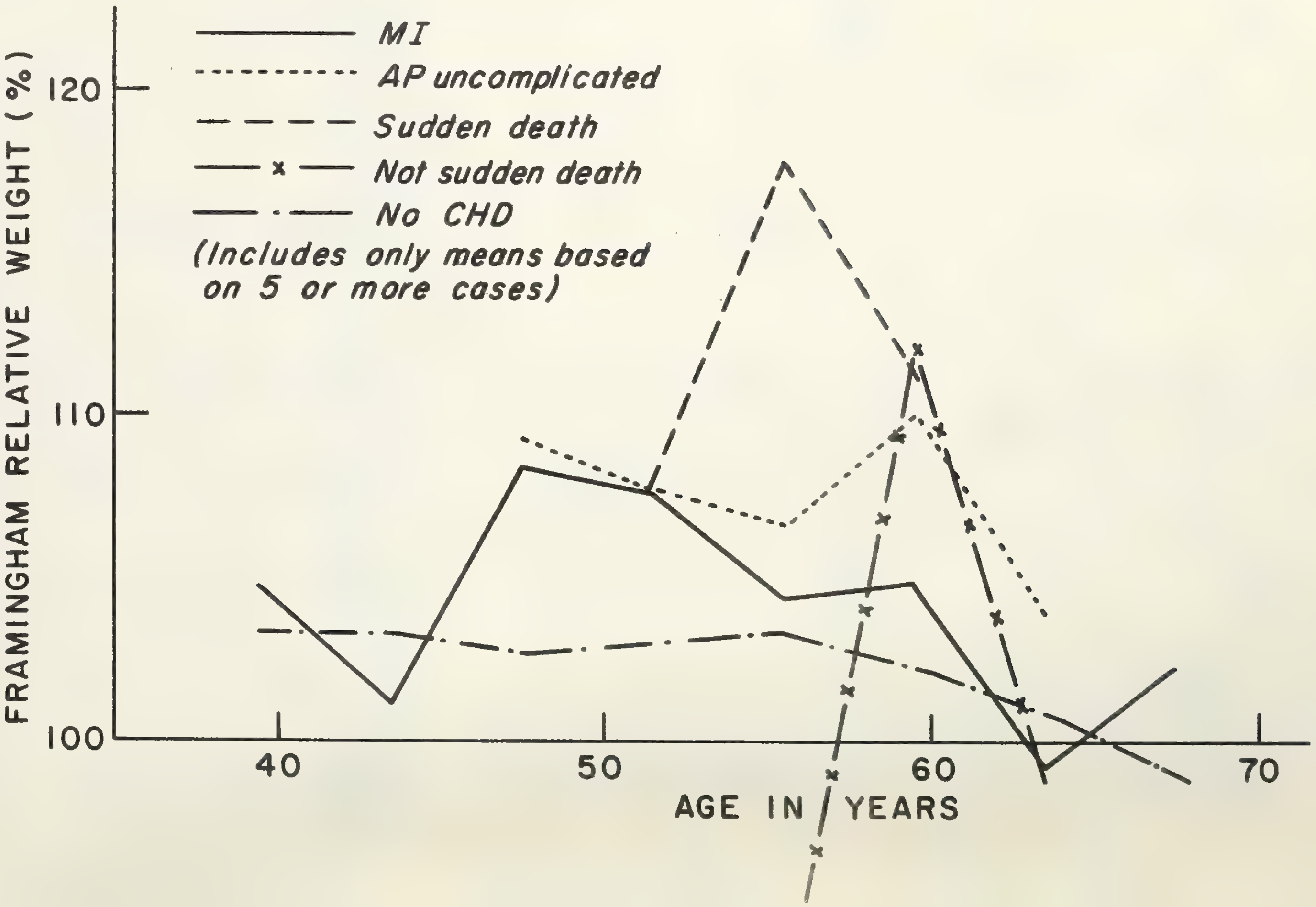


Fig. 23-7 SERUM CHOLESTEROL : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

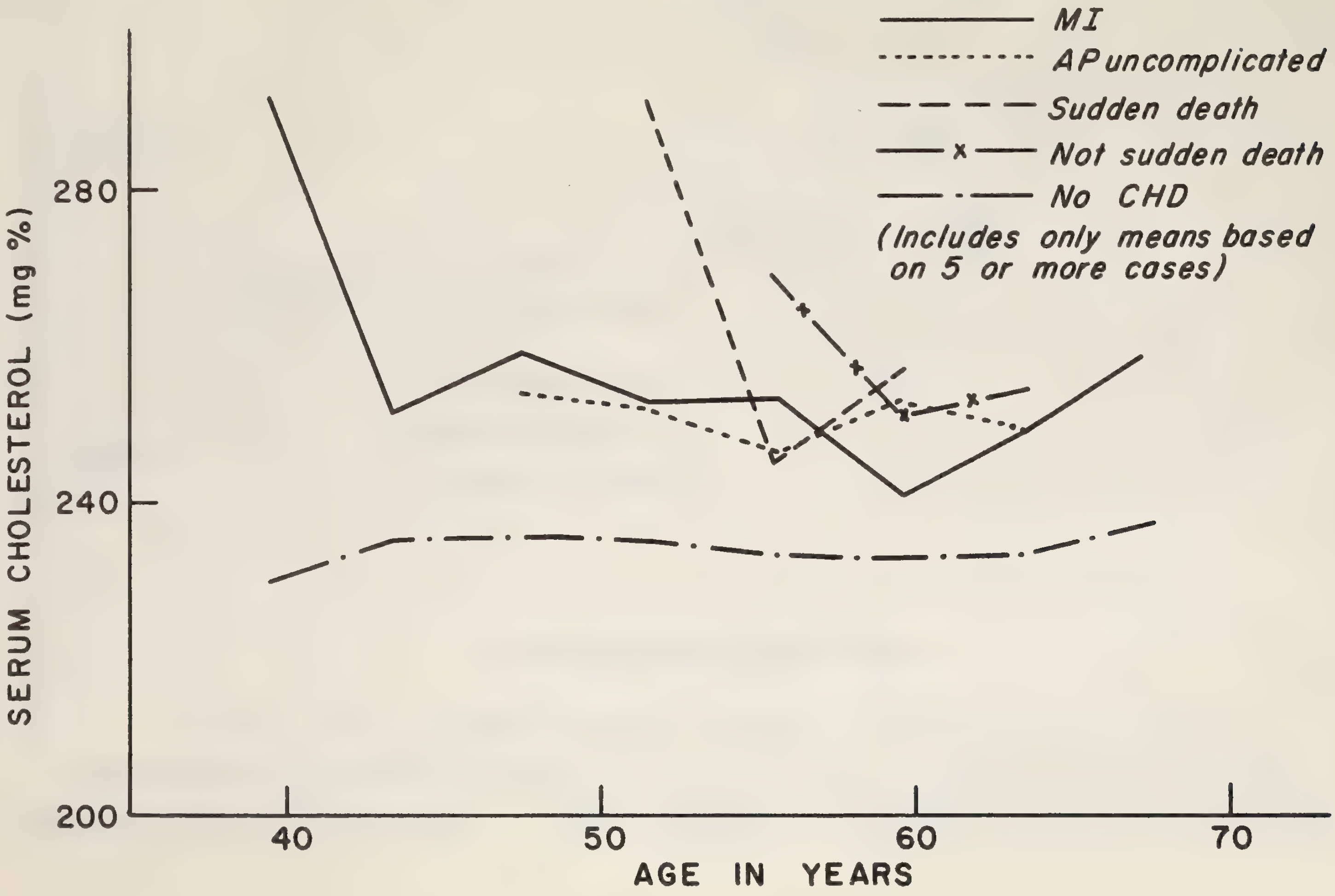


Fig. 23-8 SYSTOLIC BLOOD PRESSURE : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

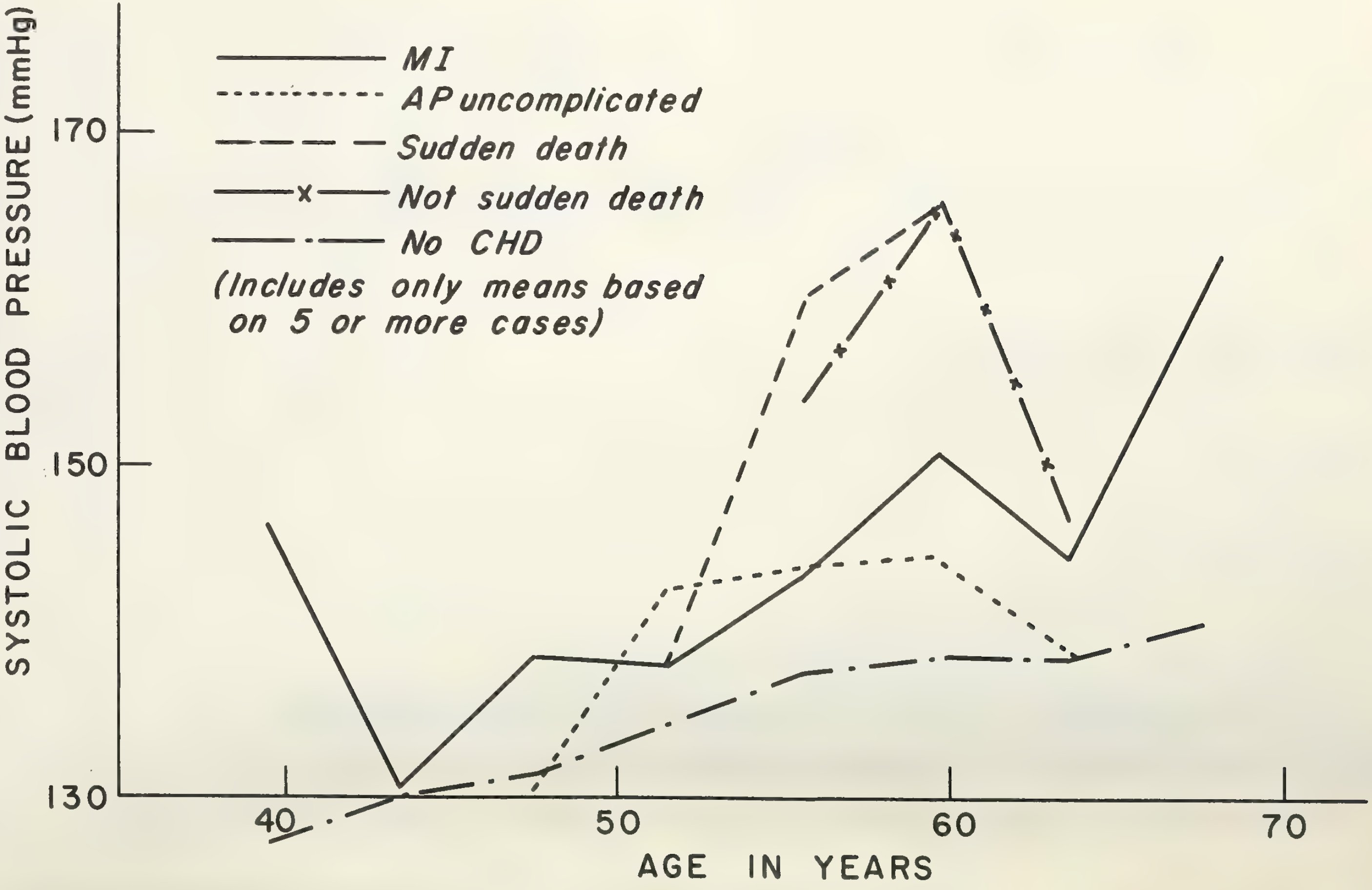


Fig. 23-9 FRAMINGHAM RELATIVE WEIGHT : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

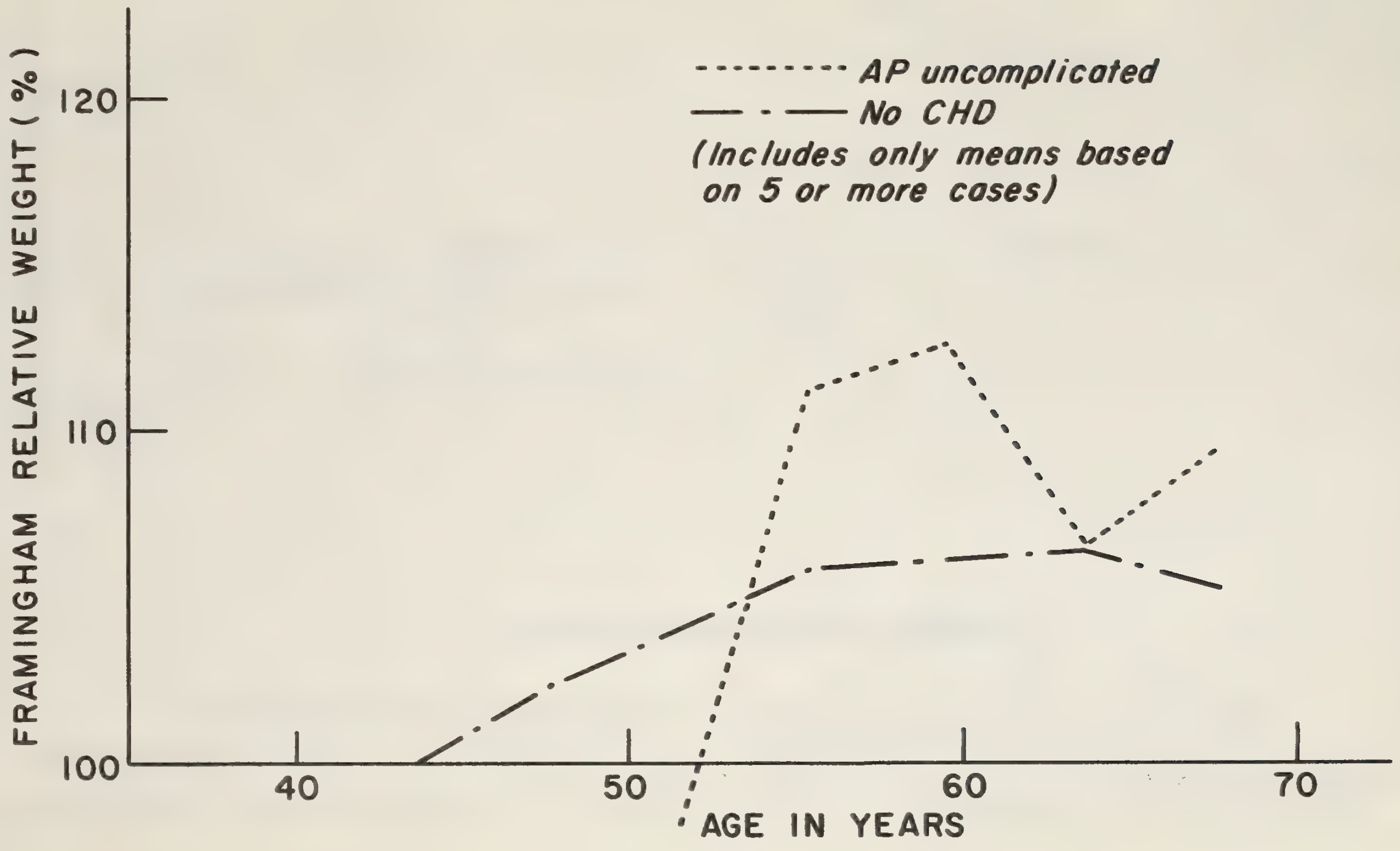


Fig. 23-10 SYSTOLIC BLOOD PRESSURE: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

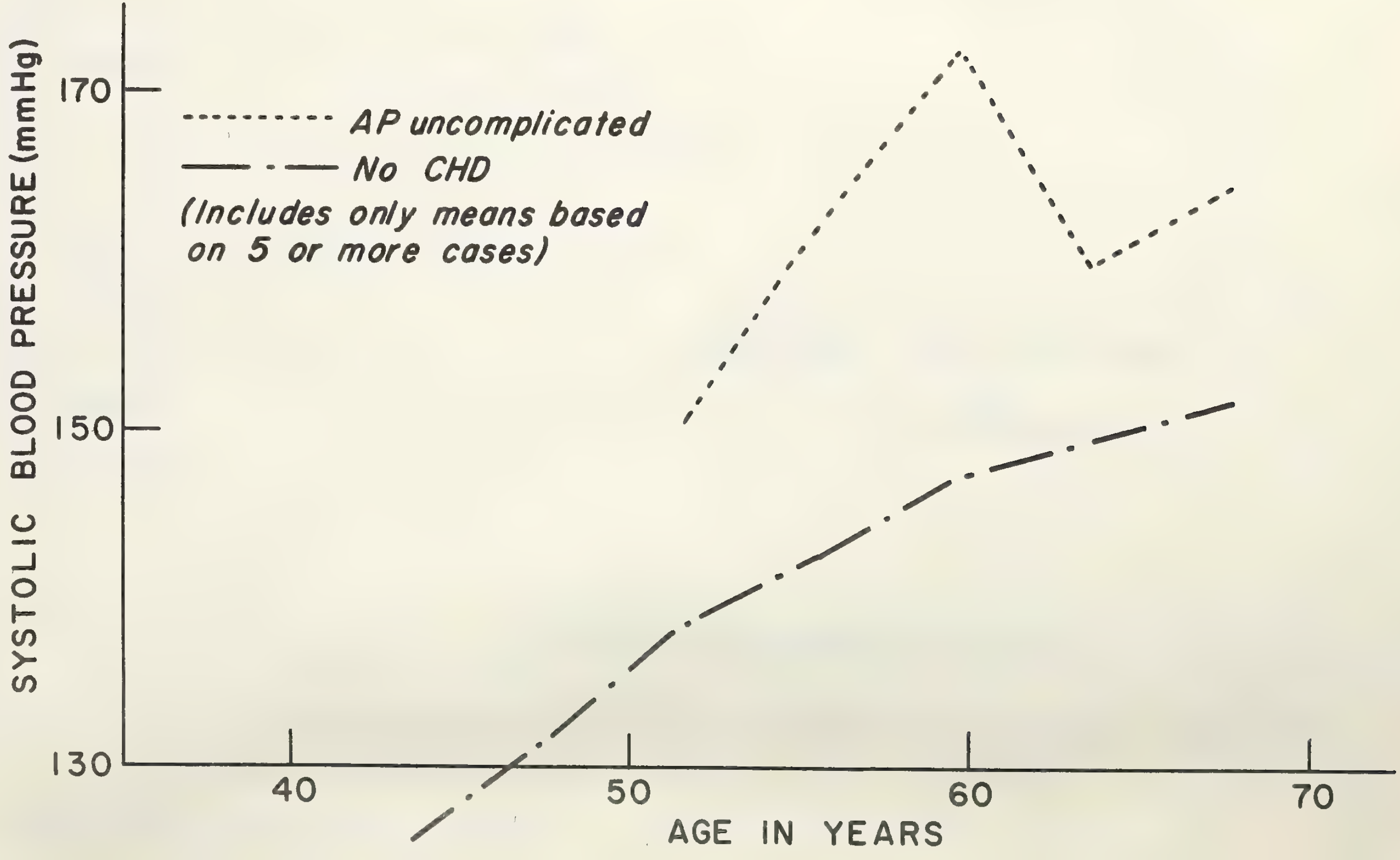
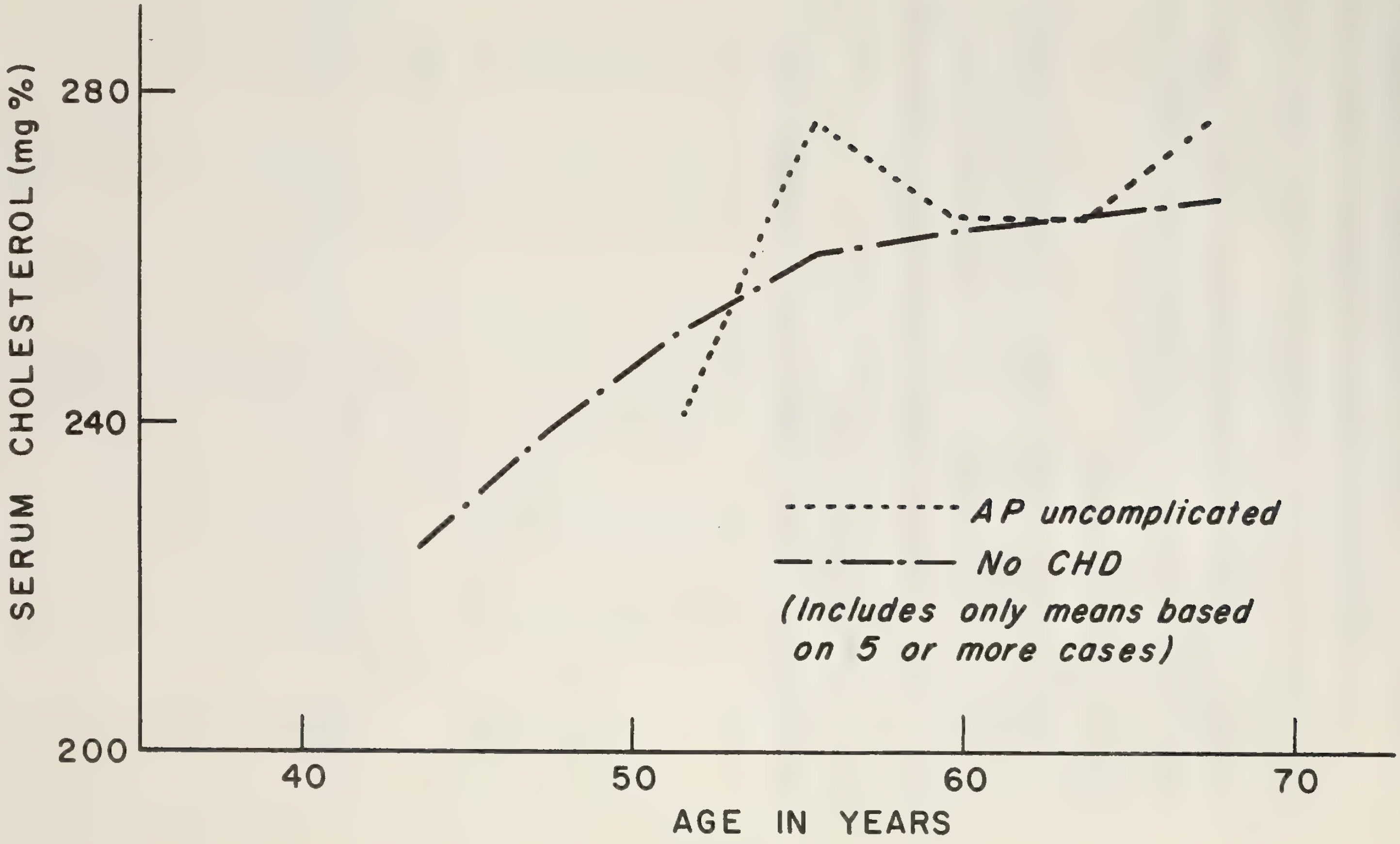


Fig. 23-11 SERUM CHOLESTEROL : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN



6,7. Cerebrovascular Accidents

Cerebrovascular accidents--and more specifically, brain infarctions--are relatively well discriminated by the triad of FRW, systolic blood pressure and serum cholesterol--better, say, than MI and as well as CHD death. Almost all the discrimination for brain infarction comes from systolic blood pressure.

For brain infarction there is little information for age groups under 50. Had there been more, it is reasonable to assume from other analyses that serum cholesterol would have added significantly to the discrimination at these younger ages.

(Table 23-H and 23-I, Figures 23-12 through 23-17)

Table 23-H

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6

Framingham Study: Cerebrovascular Accident

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	0	---	---	---	---	1	---	---	---	---
42-45	1	---	---	---	---	2	---	---	---	---
46-49	8	5.1	0.1	4.8*	0.6	4	6.6	0.5	4.8	2.5
50-53	13	12.7**	1.3	11.7**	0.1	5	2.9	0.2	0.0	2.5
54-57	7	15.8**	0.0	14.1**	0.2	8	19.1**	0.0	15.8**	1.9
58-61	8	6.5	0.0	5.5*	1.4	11	7.2	1.2	4.5*	2.2
62-65	9	13.7**	0.6	9.2**	4.6*	14	17.8**	2.0	17.2**	0.2
66-69	5	3.9	0.3	0.3	3.2	10	8.3*	1.4	2.0	2.7

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	0	---	---	---	1	---	---	---
42-45	1	---	---	---	2	---	---	---
46-49	8	1.8	14.3	11.6	4	6.0	24.1	36.6
50-53	13	4.0	20.3	-4.4	5	3.6	-0.7	30.8
54-57	7	-1.0	32.0	-7.0	8	-0.9	36.2	22.8
58-61	8	-0.1	20.6	17.4	11	6.0	17.1	-20.4
62-65	9	3.6	26.1	30.0	14	6.7	28.4	-5.0
66-69	5	3.8	-6.5	-31.9	10	-6.7	12.6	-23.9

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	726	0	---	---	---	---	862	1	---	---	---	---
42-45	899	1	---	---	---	---	1116	2	---	---	---	---
46-49	872	8	3	0	4	2	1025	4	2	0	3	1
50-53	786	13	4	0	5	0	941	5	2	0	3	1
54-57	714	7	3	0	5	0	864	8	4	0	6	0
58-61	620	8	2	0	3	0	767	11	3	0	6	1
62-65	418	9	6	0	6	0	518	14	5	0	8	0
66-69	196	5	3	0	3	1	251	10	2	0	5	0
TOTAL			21	0	26	3			18	0	31	3

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Table 23-I

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6

Framingham Study: Brain Infarction

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	0	---	---	---	---	0	---	---	---	---
42-45	1	---	---	---	---	1	---	---	---	---
46-49	3	---	---	---	---	2	---	---	---	---
50-53	8	17.4**	3.1	15.6**	0.1	5	2.9	0.2	0.0	2.5
54-57	5	2.5	0.0	2.2	0.0	7	17.4**	0.1	13.5**	4.1
58-61	7	5.5	0.0	4.5*	1.4	8	8.7*	1.2	6.3*	1.9
62-65	6	14.0**	0.0	13.1**	0.5	9	14.4**	2.9	12.8**	0.3
66-69	2	---	---	---	---	6	10.2*	0.4	6.8	0.8

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	0	---	---	---	0	---	---	---
42-45	1	---	---	---	1	---	---	---
46-49	3	---	---	---	2	---	---	---
50-53	8	8.0	29.8	-4.5	5	3.6	-0.7	30.8
54-57	5	-0.6	15.1	-3.4	7	1.7	35.8	35.6
58-61	7	0.5	20.0	18.7	8	7.1	23.8	-22.2
62-65	6	0.5	38.0	12.6	9	10.0	30.3	8.3
66-69	2	---	---	---	6	-4.6	29.9	-17.3

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
	at		Decile		Quintile		at		Decile		Quintile	
Age	risk	Cases	High	Low	High	Low	risk	Cases	High	Low	High	Low
38-41	728	0	---	---	---	---	864	0	---	---	---	---
42-45	900	1	---	---	---	---	1119	1	---	---	---	---
46-49	872	3	---	---	---	---	1028	2	---	---	---	---
50-53	788	8	3	0	4	0	946	5	2	0	3	1
54-57	719	5	1	0	3	0	866	7	4	0	6	0
58-61	623	7	2	0	2	0	770	8	3	0	5	1
62-65	419	6	3	0	4	0	520	9	4	0	7	0
66-69	196	2	---	---	---	---	253	6	3	0	4	0
TOTAL			9	0	13	0			16	0	25	2

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Fig. 23-12 FRAMINGHAM RELATIVE WEIGHT: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

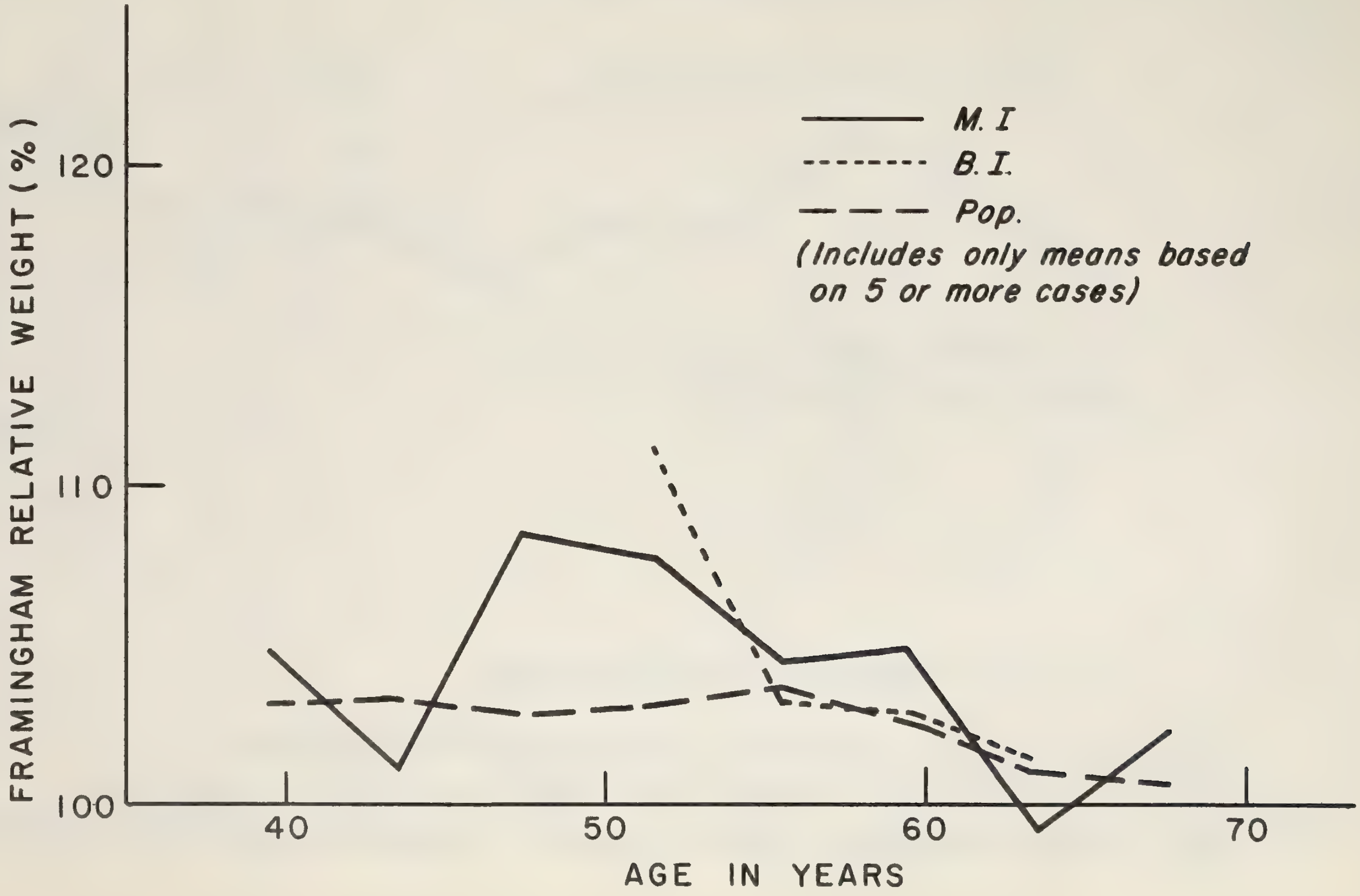


Fig. 23-13 SERUM CHOLESTEROL: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

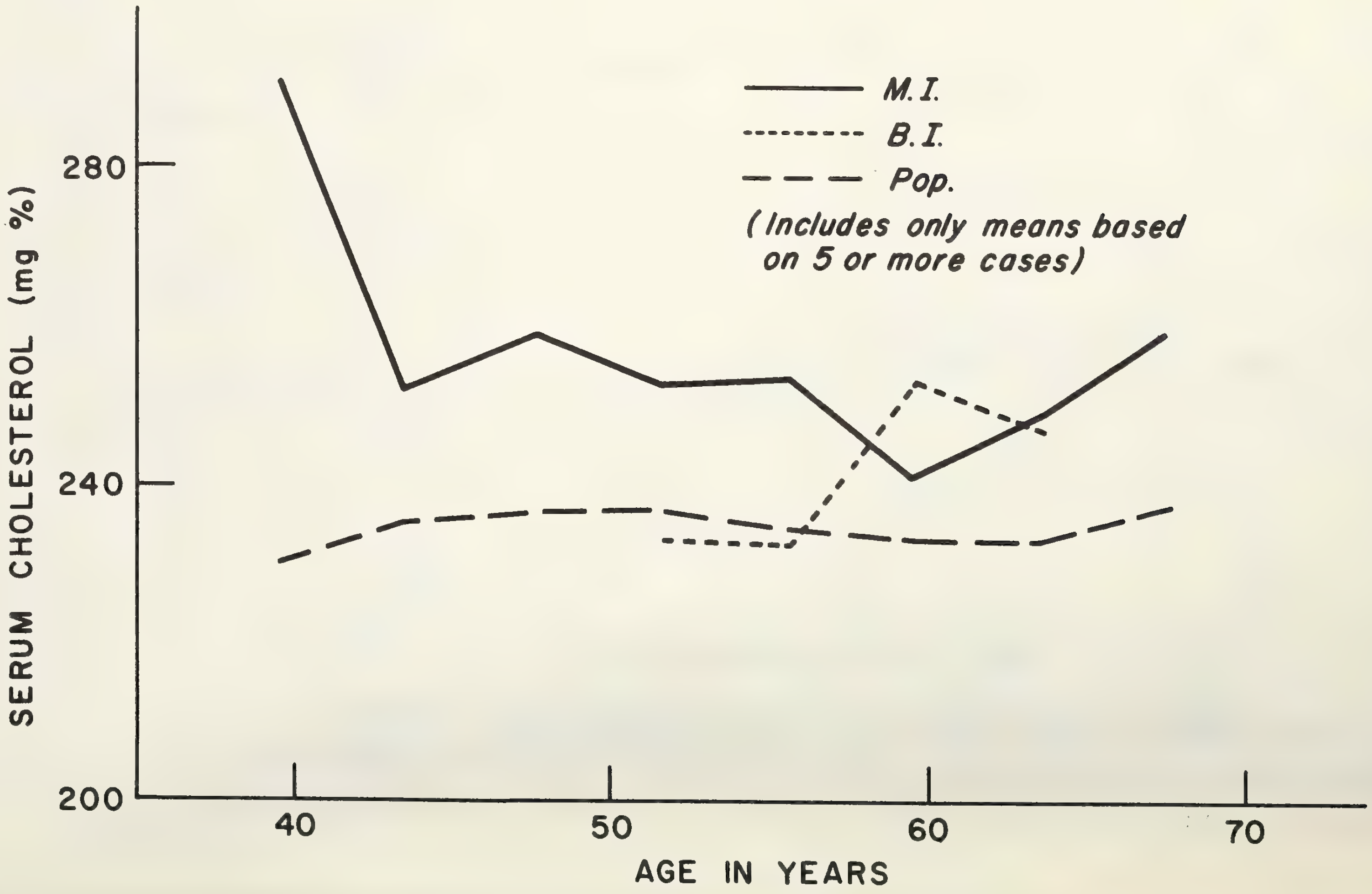


Fig. 23-14 SYSTOLIC BLOOD PRESSURE : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

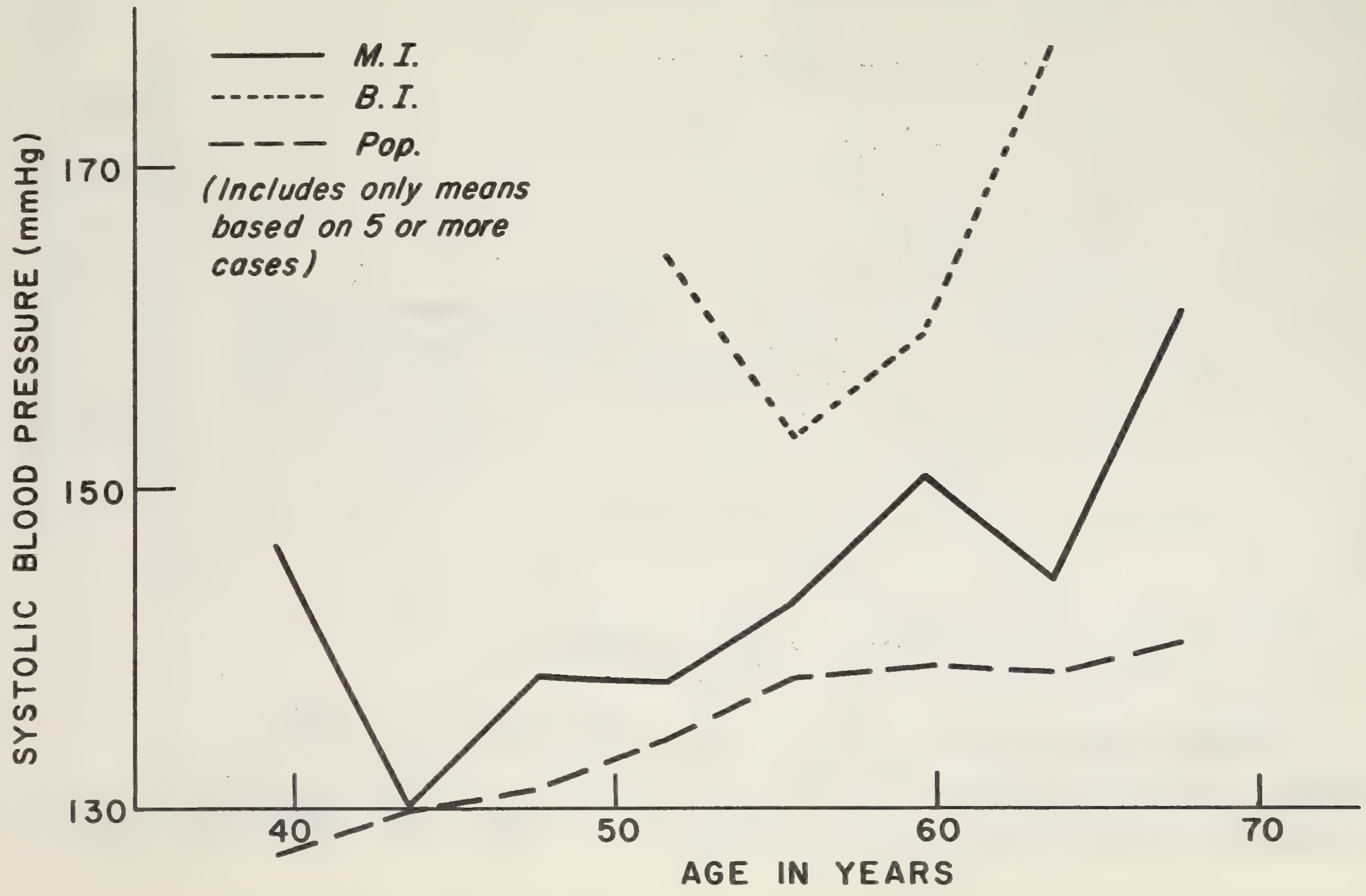


Fig. 23-15 FRAMINGHAM RELATIVE WEIGHT: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

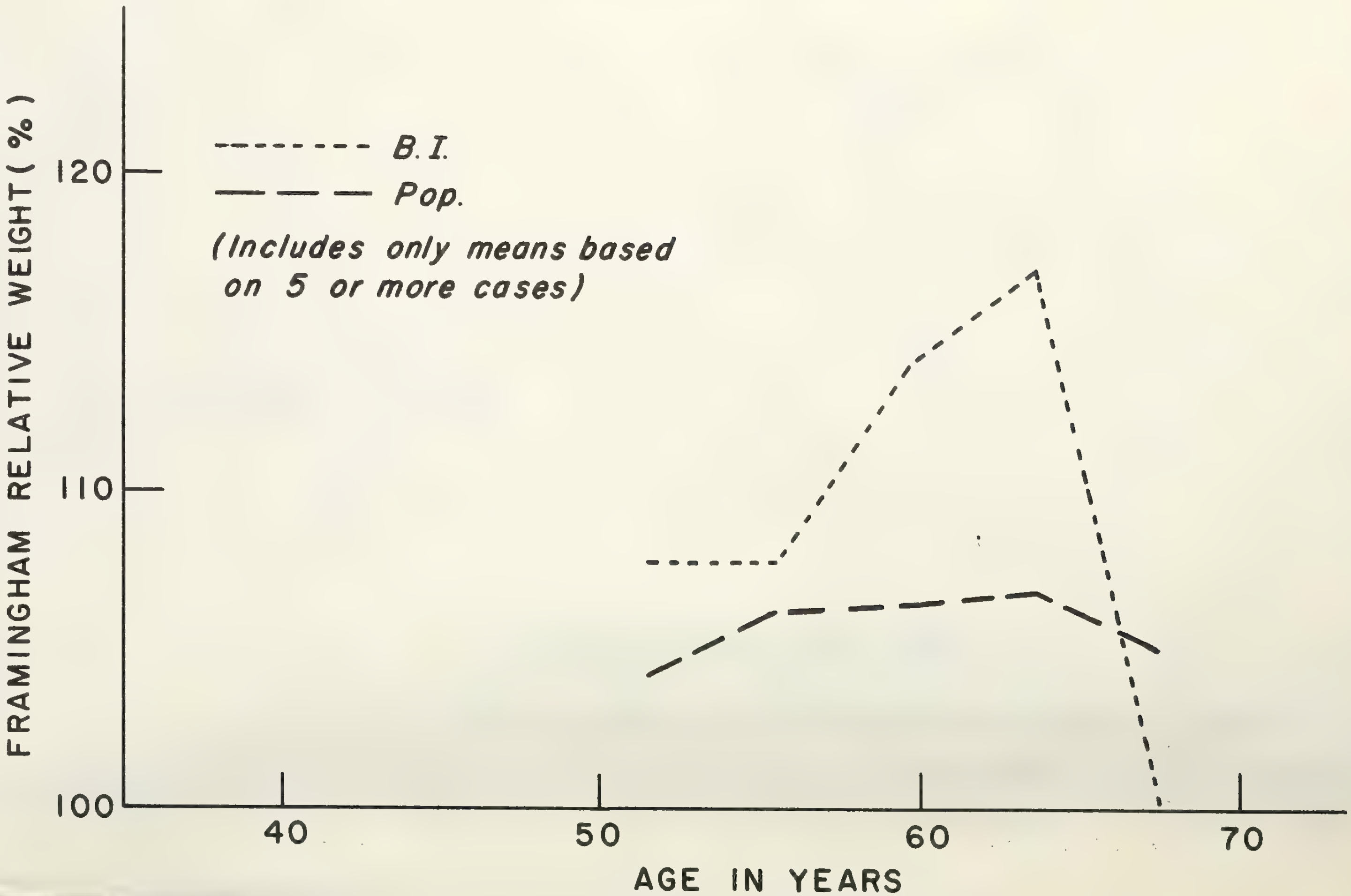


Fig. 23-16 SERUM CHOLESTEROL : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

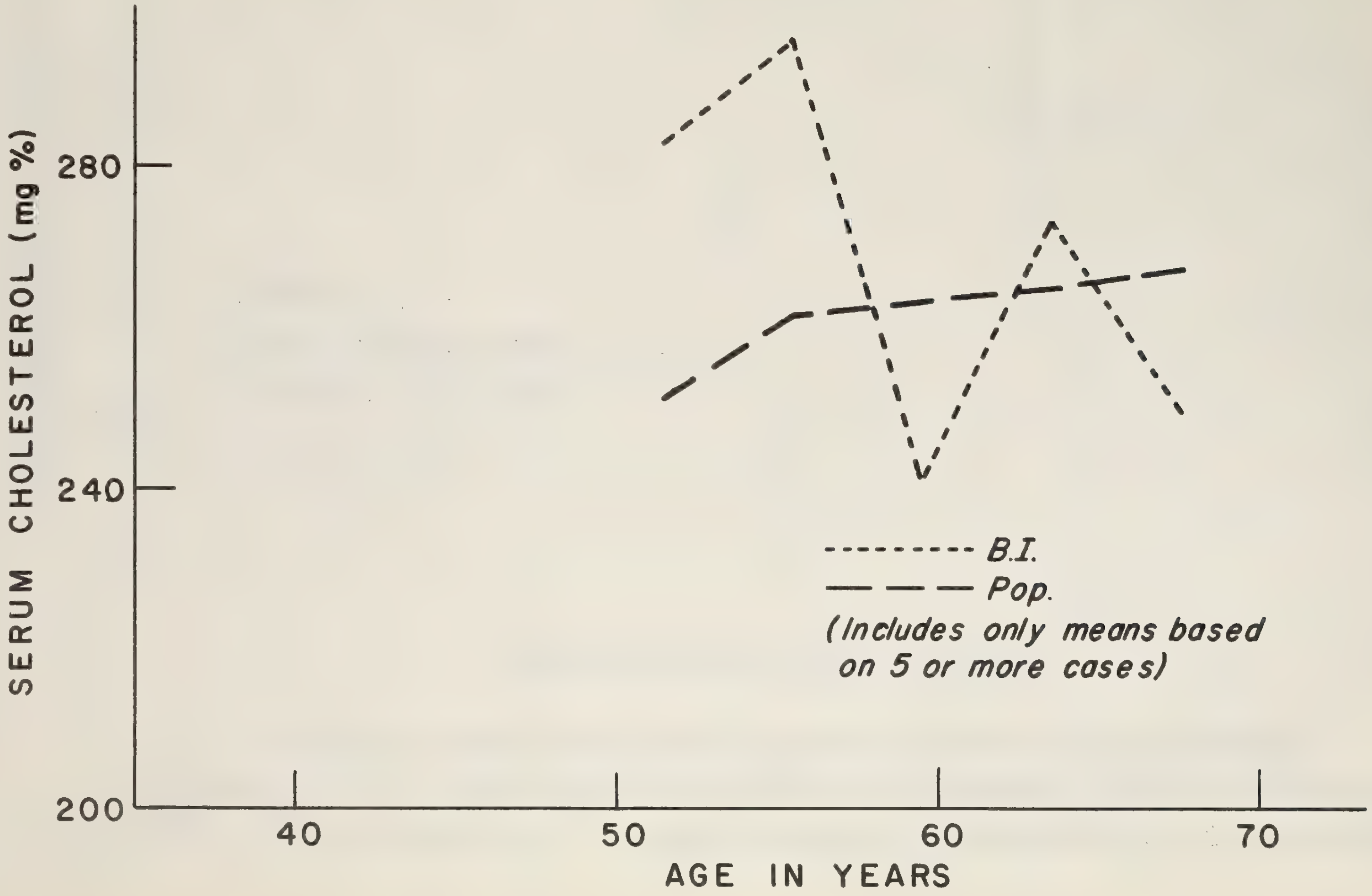
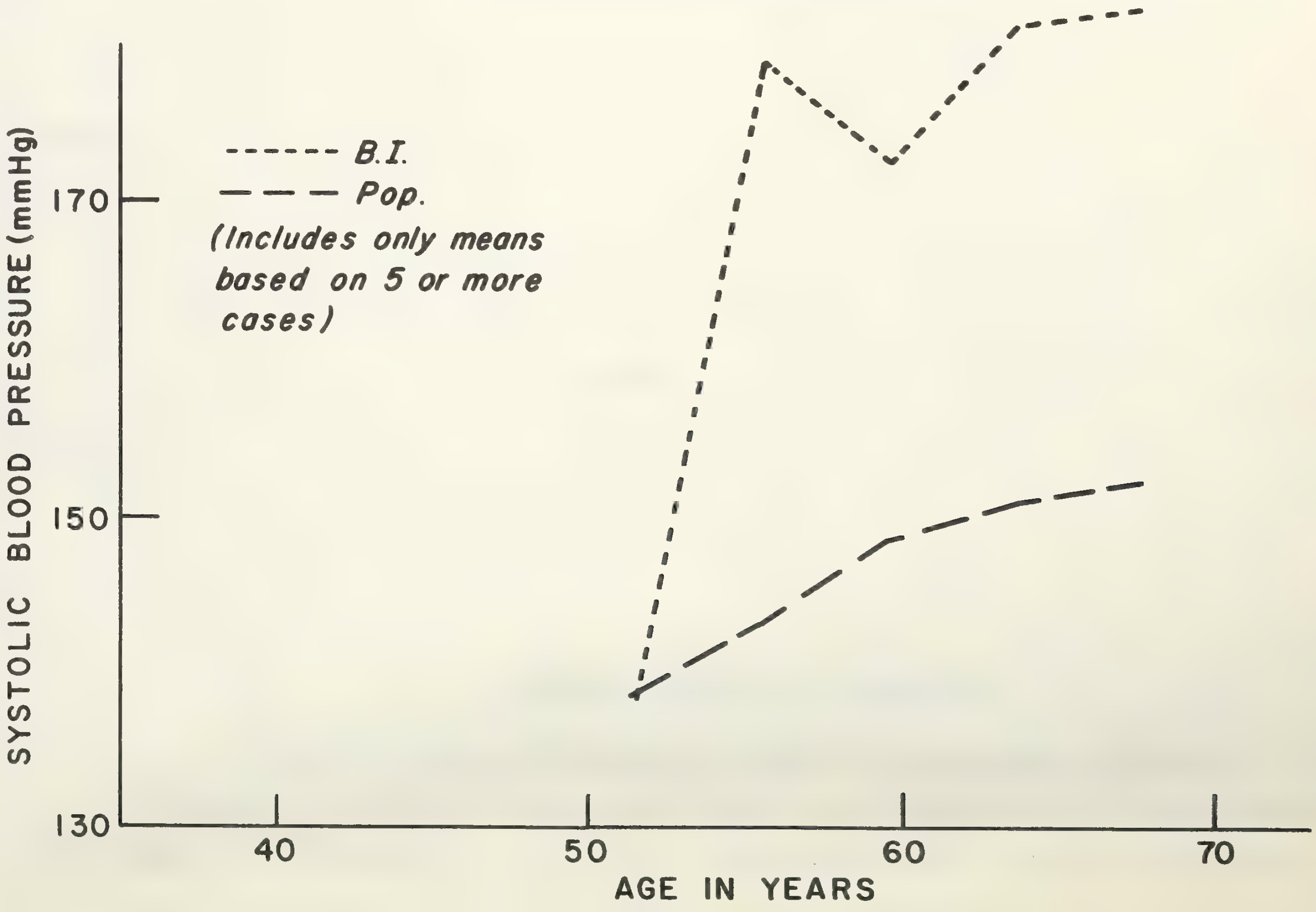


Fig. 23-17 SYSTOLIC BLOOD PRESSURE : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN



8. Intermittent Claudication

Information available for analyzing intermittent claudication is relatively small, but what there is suggests that these 3 variables are not very useful for predicting the onset of this disease. There is a distinct suggestion that systolic blood pressure is related to the development of intermittent claudication, but this is generally not statistically significant for specific age groups.

(Table 23-J)

Table 23-J

Discriminant analysis For Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Intermittent Claudication

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	2	---	---	---	---	2	---	---	---	---
42-45	5	10.3	0.1	8.2**	1.4	0	---	---	---	---
46-49	8	6.0	0.5	3.4	1.5	3	---	---	---	---
50-53	2	---	---	---	---	2	---	---	---	---
54-57	11	3.8	0.0	2.9	0.7	5	5.1	1.7	0.0	3.5
58-61	17	12.9**	5.0**	5.4**	1.0	7	1.3	1.0	0.6	0.0
62-65	10	3.8	0.0	3.5	0.2	11	11.7**	11.1**	1.9	0.0
66-69	6	0.9	0.0	0.0	0.8	5	4.7	0.1	2.6	1.7

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	2	---	---	---	2	---	---	---
42-45	5	-2.3	22.1	23.6	0	---	---	---
46-49	8	-3.4	11.8	17.6	3	---	---	---
50-53	2	---	---	---	2	---	---	---
54-57	11	-0.5	11.9	9.8	5	10.2	2.3	38.4
58-61	17	-6.8	14.2	10.0	7	-7.0	-8.0	-1.1
62-65	10	0.1	15.3	6.3	11	17.8	10.9	2.4
66-69	6	-0.6	2.1	-14.7	5	-3.1	20.5	26.2

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
	at		Decile		Quintile		at		Decile		Quintile	
Age	risk	Cases	High	Low	High	Low	risk	Cases	High	Low	High	Low
38-41	724	2	---	---	---	---	863	2	---	---	---	---
42-45	896	5	2	0	4	0	1114	0	---	---	---	---
46-49	865	8	1	0	2	0	1022	3	---	---	---	---
50-53	779	2	---	---	---	---	939	2	---	---	---	---
54-57	718	11	1	0	6	0	862	5	2	0	2	0
58-61	614	17	5	1	9	1	765	7	2	0	3	0
62-65	395	10	4	1	5	2	513	11	4	0	5	0
66-69	181	6	0	0	3	0	249	5	1	0	1	0
TOTAL			13	2	29	3			9	0	11	0

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

9. Congestive Heart Failure

The variables FRW, systolic blood pressure and serum cholesterol apparently allow the discrimination of congestive heart failure as well as any cardiovascular outcome. Information is somewhat scanty from the Study, but by and large the effective discriminator appears to be systolic blood pressure.

(Table 23-K, Figures 23-18 through 23-23)

Table 23-K

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Congestive Heart Failure

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	1	---	---	---	---	1	---	---	---	---
42-45	1	---	---	---	---	3	---	---	---	---
46-49	5	21.2**	1.6	21.0**	1.0	1	---	---	---	---
50-53	6	12.5**	4.2	8.9**	0.5	3	---	---	---	---
54-57	10	5.5	0.1	1.9	4.0	5	10.7*	3.2	9.9	0.0
58-61	8	14.6**	0.1	12.8**	0.8	9	23.4**	7.1	18.1**	2.6
62-65	9	6.2	0.0	6.0*	0.0	9	4.6	1.1	3.5	0.6
66-69	4	6.3	4.4*	0.6	0.3	3	---	---	---	---

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	1	---	---	---	1	---	---	---
42-45	1	---	---	---	3	---	---	---
46-49	5	7.7	36.6	18.3	1	---	---	---
50-53	6	10.7	26.1	-11.4	3	---	---	---
54-57	10	1.5	10.1	24.5	5	14.1	36.5	0.9
58-61	8	1.3	31.1	-13.3	9	16.5	37.9	-24.1
62-65	9	0.4	20.8	-2.8	9	6.3	16.2	11.3
66-69	4	15.4	-9.6	-11.5	3	---	---	---

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	726	1	---	---	---	---	863	1	---	---	---	---
42-45	899	1	---	---	---	---	1116	3	---	---	---	---
46-49	871	5	5	0	5	0	1025	1	---	---	---	---
50-53	787	6	2	0	4	0	943	3	---	---	---	---
54-57	717	10	4	0	6	0	867	5	5	0	5	0
58-61	622	8	3	0	5	0	769	9	4	0	6	0
62-65	417	9	4	1	6	2	516	9	3	0	3	0
66-69	191	4	2	0	2	1	253	3	---	---	---	---
TOTAL			20	1	28	3			12	0	14	0

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Fig. 23-18 FRAMINGHAM RELATIVE WEIGHT: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

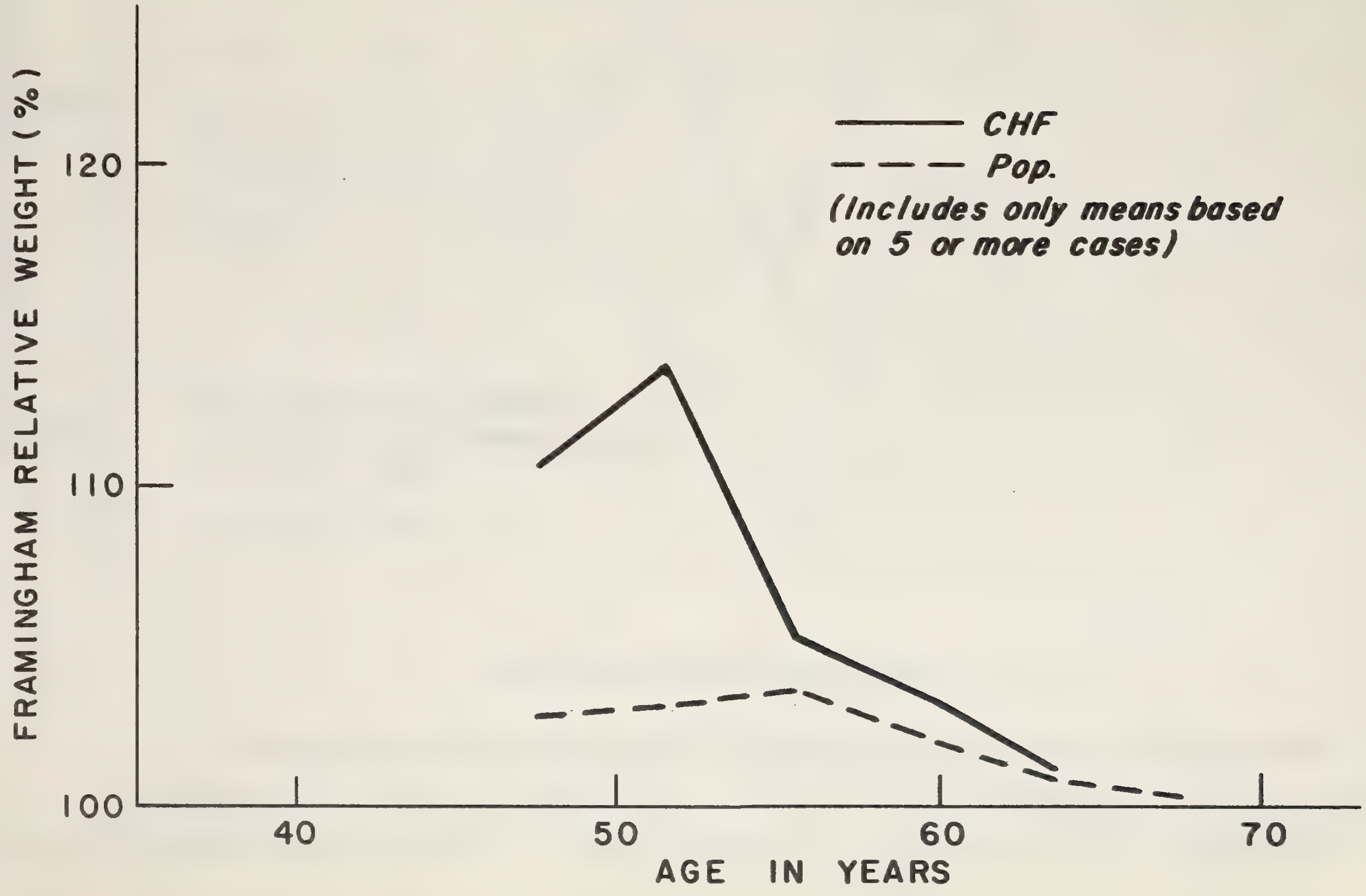


Fig. 23-19 SERUM CHOLESTEROL : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

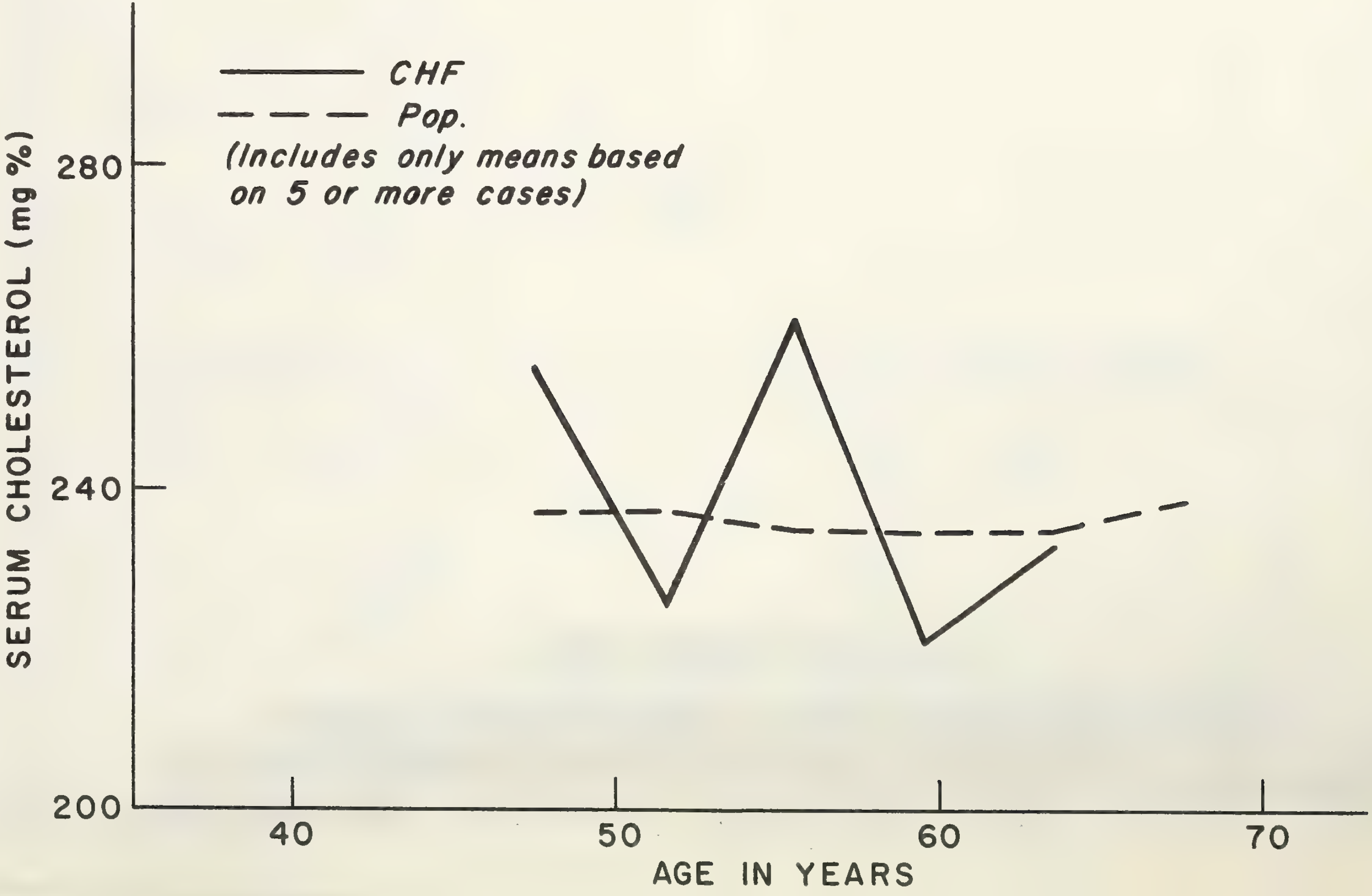


Fig. 23-20 SYSTOLIC BLOOD PRESSURE : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, MEN

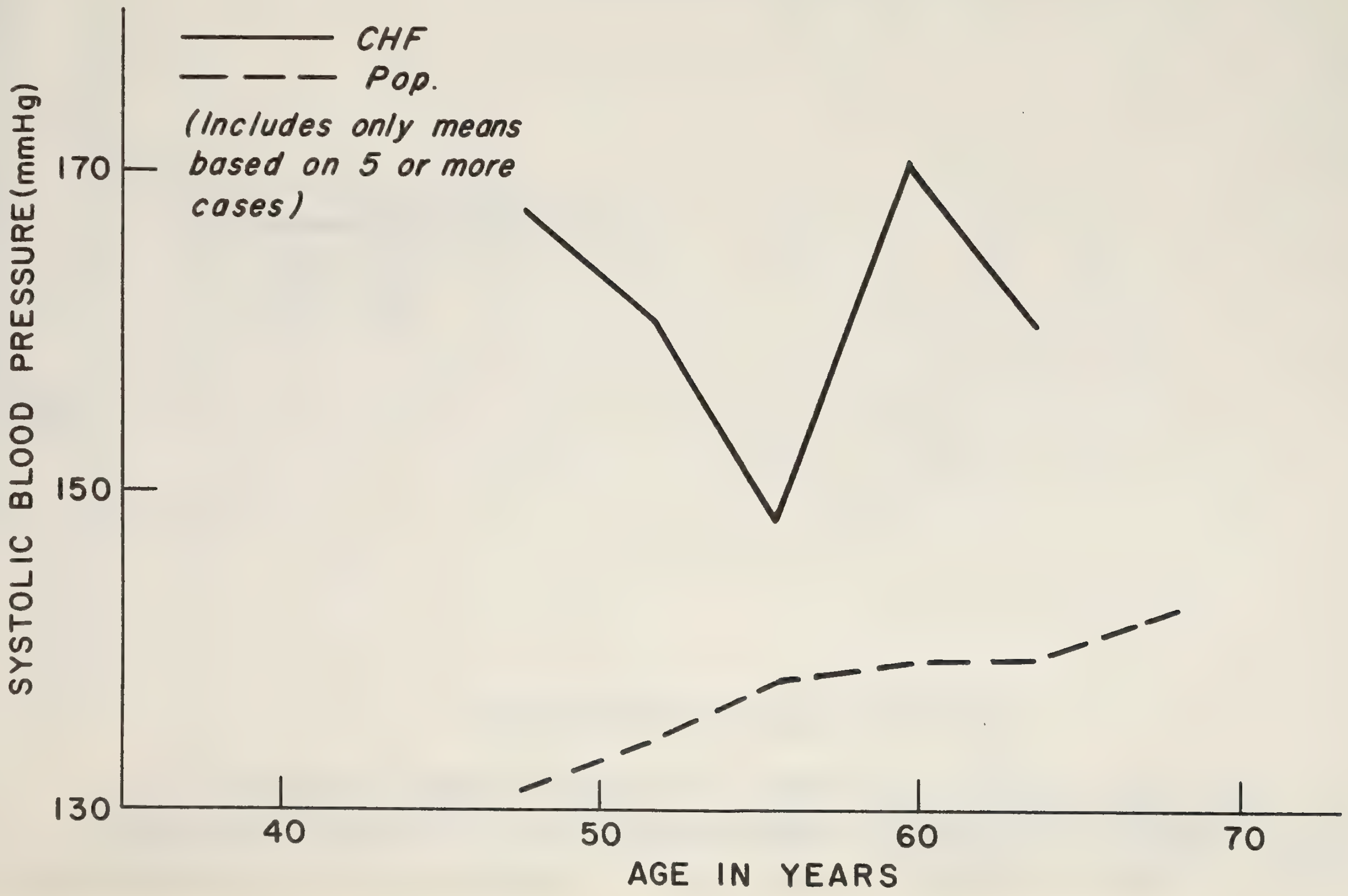


Fig. 23-21 FRAMINGHAM RELATIVE WEIGHT: MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

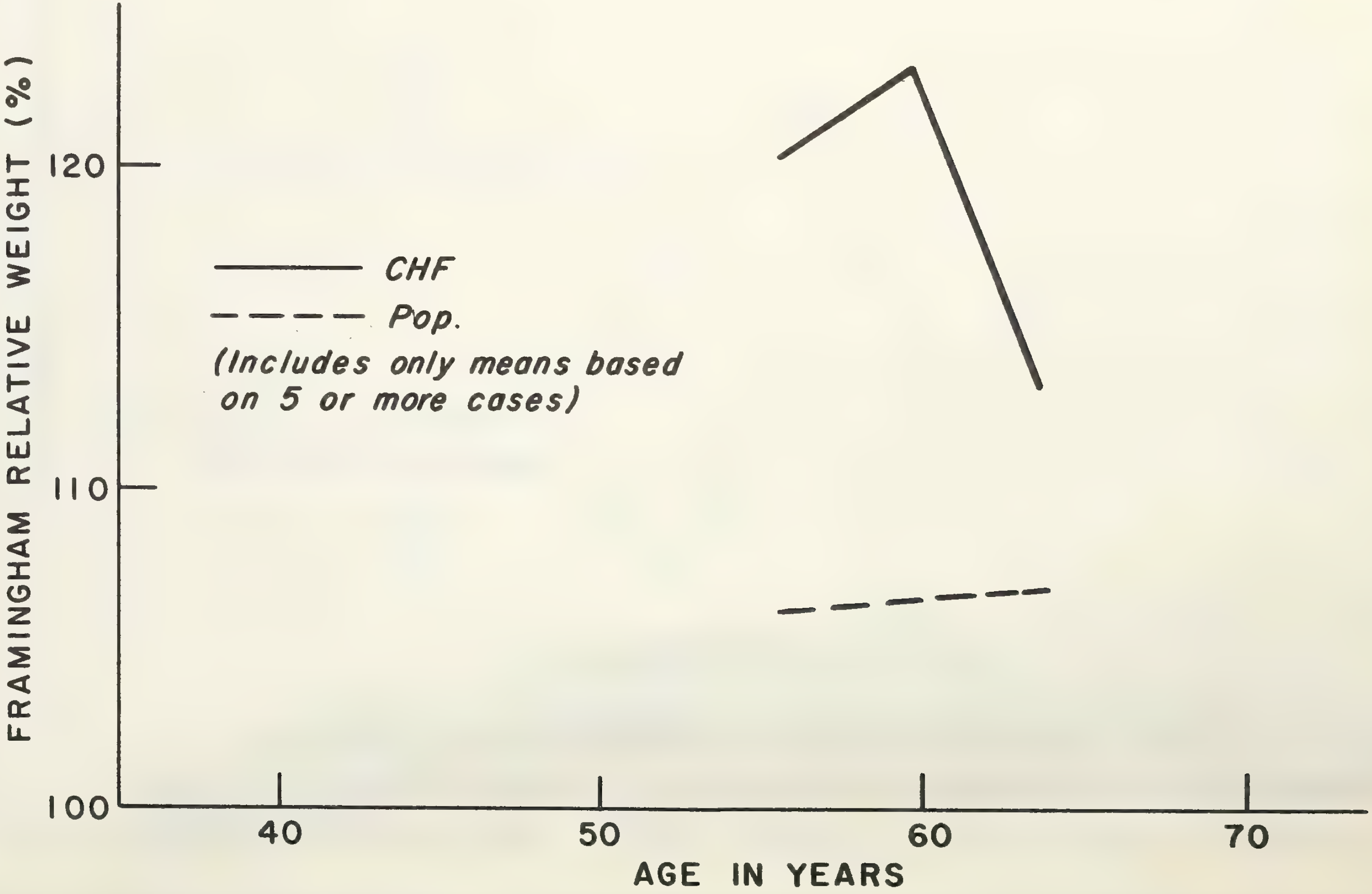


Fig. 23-22 SERUM CHOLESTEROL : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN

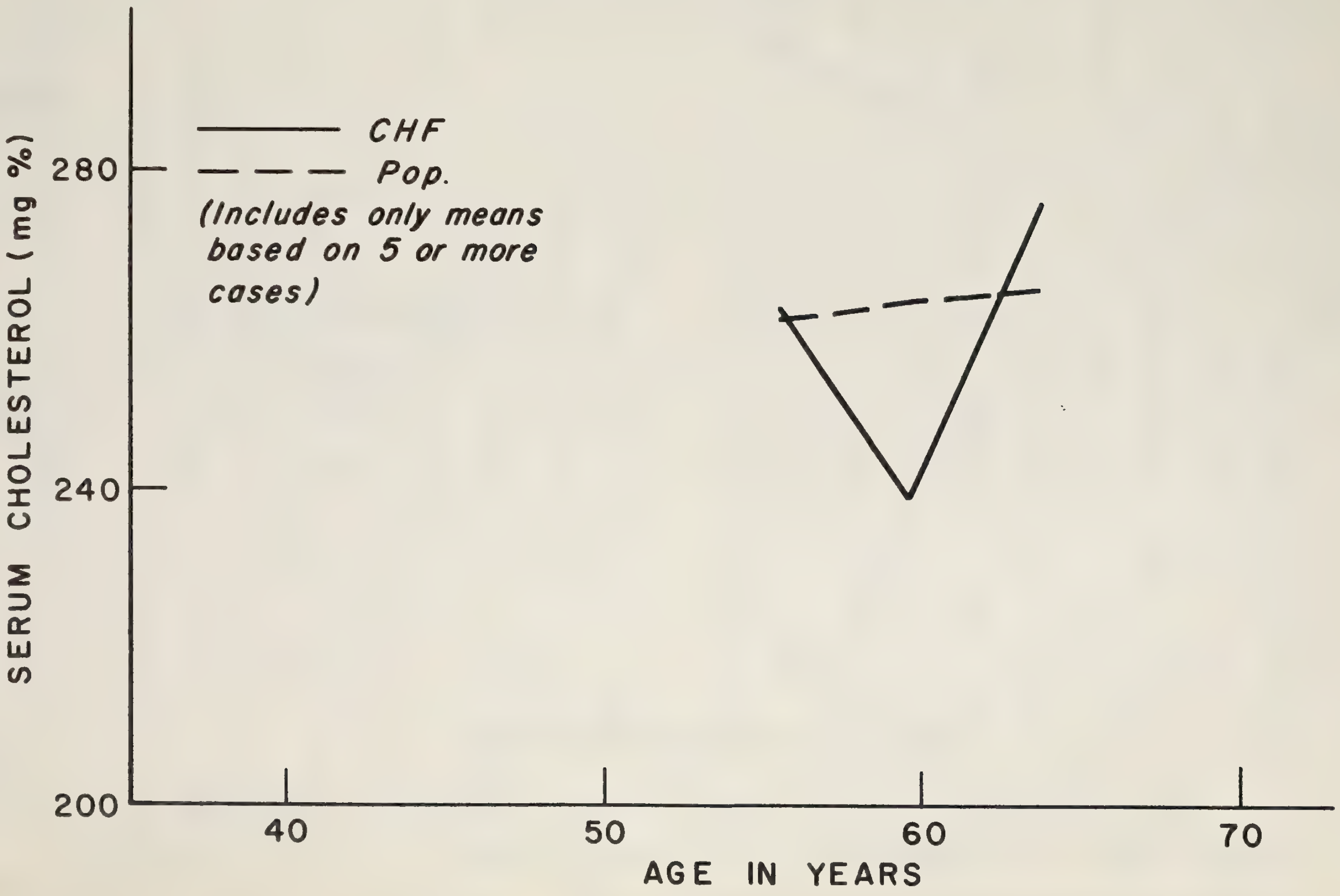
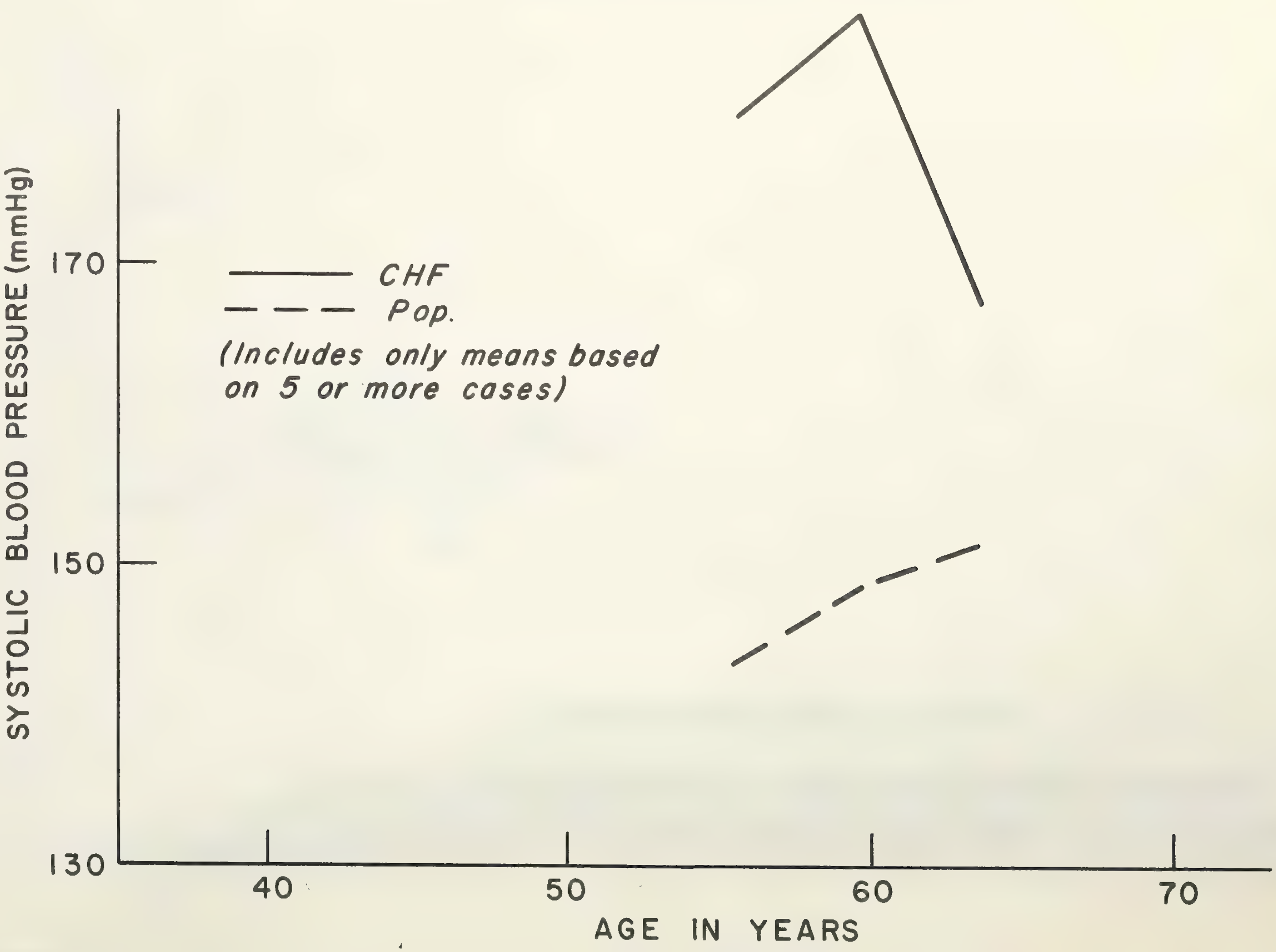


Fig. 23-23 SYSTOLIC BLOOD PRESSURE : MEAN VALUES OF PERSONS FREE OF DISEASE AT EXAMS 2, 4 OR 6 BY AGE AT THAT EXAM, ACCORDING TO THEIR DISEASE STATUS IN THE FOLLOWING 4 YEARS FOR SPECIFIED DISEASES:

FRAMINGHAM STUDY, WOMEN



10-13. Death

It has already been shown that the three measurements provide statistically significant discrimination for CHD death in men. This is shown again in Table 11 (which is distinguished from Tables 4 and 5 by including in the population at risk all persons alive, rather than only those free of CHD at entry). These variables appear to have discriminatory power for other cardiovascular deaths, although the small number of such deaths makes it difficult to be certain. The major role is played by systolic blood pressure. Excess weight as such does not predict mortality in men, unlike what is shown by insurance statistics (there is not even a suggestion of this in the Framingham data) nor does it predict total mortality in women.

For non-cardiovascular deaths there is a scattering of age-sex groups where there is apparent discrimination on the basis of these 3 variables. What meaning to attach to this is difficult to say. For example, these variables discriminate non-cardiovascular deaths in men 50-53, 54-57 and 66-69. In the first group the FRW for those who died was about average and played no role in discrimination whereas in the two older groups the FRW for those who died was below average and played an important part in discrimination. Serum cholesterol levels tended to be low in all 3 age groups but in only the age group 54-57 did this fact add significantly to discrimination.

These various clues are perhaps intriguing but they are little more than clues. Explorations of the data have suggested an association of FRW with cancer deaths; this will ha [illegible] iscussed in another context. (Table 23-L through 23-O)

Table 23-L

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6

Framingham Study: Death from All Causes

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	6	12.2**	2.5**	4.8**	1.2*	4	1.2	0.2	0.6	0.1
42-45	9	7.1	0.2	7.0**	0.1	8	6.9	3.6	4.6	1.1
46-49	20	5.1	0.7	1.7	1.9	11	2.3	0.8	0.2	1.6
50-53	28	10.8*	0.3	9.0**	0.7	23	1.1	0.2	0.1	0.8
54-57	49	22.5**	0.7	16.2**	2.2	21	7.7	0.4	7.4	0.6
58-61	49	15.6**	0.5	15.4**	0.0	19	5.1	1.0	0.2	2.9
62-65	43	4.2	2.1	1.2	0.1	26	4.1	0.0	3.9	0.0
66-69	21	15.8**	3.7**	7.1**	0.9	19	13.0**	0.1	8.4**	3.5*

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	6	-8.6	14.5	19.5	4	-3.8	6.4	6.7
42-45	9	2.2	15.3	4.6	8	11.5	15.0	15.3
46-49	20	-2.6	5.5	12.8	11	4.9	3.2	17.9
50-53	28	-1.3	12.4	6.6	23	1.5	-1.8	-8.2
54-57	49	-1.6	13.5	-8.5	21	2.4	15.6	7.8
58-61	49	1.3	14.4	0.0	19	-4.3	3.1	-17.9
62-65	43	-3.2	4.5	-2.1	26	0.2	10.3	1.0
66-69	21	-6.5	15.5	-8.7	19	1.3	19.3	-20.2

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	728	6	3	0	4	0	864	4	2	0	2	0
42-45	900	9	5	0	5	1	1119	8	3	0	4	1
46-49	873	20	5	1	9	2	1029	11	3	1	4	1
50-53	792	28	8	2	14	5	950	23	1	3	8	4
54-57	728	49	14	1	22	4	875	21	6	2	10	3
58-61	634	49	8	1	16	4	778	19	5	2	8	2
62-65	426	43	8	5	14	8	525	26	6	3	7	4
66-69	199	21	7	0	11	0	260	19	6	1	9	1
TOTAL			58	10	95	24			32	12	52	16

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Tabler 23-M

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: CHD Death

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	3	---	---	---	---	0	---	---	---	---
42-45	5	4.7	0.2	4.7*	0.3	1	---	---	---	---
46-49	5	7.9*	0.3	2.5	6.4*	1	---	---	---	---
50-53	15	5.4	0.0	2.2	3.6	3	---	---	---	---
54-57	25	15.8**	2.7	13.7**	2.1	2	---	---	---	---
58-61	23	11.3*	3.2	9.2**	0.0	5	12.1**	1.0*	6.4*	1.4
62-65	21	9.9	1.3	5.1*	2.1	8	4.9	0.0	1.6	2.9
66-69	8	5.0	0.0	4.7*	0.2	6	5.6	0.0	4.2*	1.0

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	3	---	---	---	0	---	---	---
42-45	5	3.1	16.7	11.4	1	---	---	---
46-49	5	3.5	12.9	46.1	1	---	---	---
50-53	15	-0.4	8.4	20.1	3	---	---	---
54-57	25	4.3	17.1	11.4	2	---	---	---
58-61	23	4.8	16.0	0.1	5	-8.2	30.3	-24.2
62-65	21	-3.4	13.0	13.2	8	-1.2	11.6	25.8
66-69	8	1.0	19.7	5.3	6	-0.8	24.0	18.3

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	728	3	---	---	---	---	864	0	---	---	---	---
42-45	900	5	2	0	3	1	1119	1	---	---	---	---
46-49	873	5	3	0	3	0	1029	1	---	---	---	---
50-53	792	15	3	0	5	1	950	3	---	---	---	---
54-57	728	25	6	0	11	0	875	2	---	---	---	---
58-61	634	23	5	1	8	2	778	5	2	0	3	0
62-65	426	21	7	1	11	2	525	8	3	0	4	1
66-69	199	8	2	1	3	1	260	6	2	0	3	0
TOTAL			28	3	44	7			7	0	10	1

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Tabler 23-N

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Other CV Death

A. Chi-square values for distance

	MEN					WOMEN				
	Number of	All	Univariate			Number of	All	Univariate		
Age	cases	three	W	S	C	cases	three	W	S	C
38-41	0	---	---	---	---	0	---	---	---	---
42-45	1	---	---	---	---	3	---	---	---	---
46-49	3	---	---	---	---	3	---	---	---	---
50-53	3	---	---	---	---	3	---	---	---	---
54-57	12	30.9**	1.1*	18.7**	5.9**	6	6.6	0.7	2.6*	1.5
58-61	5	7.1	0.0	5.7	0.8	8	2.6	0.9	0.2	1.6
62-65	7	1.2	0.1	0.8	0.1	7	16.6**	1.3	12.3**	4.4*
66-69	2	---	---	---	---	3	---	---	---	---

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	0	---	---	---	0	---	---	---
42-45	1	---	---	---	3	---	---	---
46-49	3	---	---	---	3	---	---	---
50-53	3	---	---	---	3	---	---	---
54-57	12	-3.9	28.5	-27.4	6	-6.1	17.2	-23.4
58-61	5	1.1	26.8	-16.4	8	-6.1	-4.7	-20.6
62-65	7	1.7	-8.6	-5.4	7	7.6	34.2	-34.4
66-69	2	---	---	---	3	---	---	---

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
	at		Decile		Quintile		at		Decile		Quintile	
Age	risk	Cases	High	Low	High	Low	risk	Cases	High	Low	High	Low
38-41	728	0	---	---	---	---	864	0	---	---	---	---
42-45	900	1	---	---	---	---	1119	3	---	---	---	---
46-49	873	3	---	---	---	---	1029	3	---	---	---	---
50-53	792	3	---	---	---	---	950	3	---	---	---	---
54-57	728	12	7	0	8	0	875	6	2	0	3	0
58-61	634	5	2	0	3	1	778	8	4	1	5	1
62-65	426	7	2	1	2	1	525	7	4	1	4	1
66-69	199	2	---	---	---	---	260	3	---	---	---	---
TOTAL			11	1	13	2			10	2	12	2

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Tabler 23-0

Discriminant analysis for Framingham relative weight, systolic blood pressure and serum cholesterol based on 4-year follow-up from Exams 2, 4 or 6
Framingham Study: Non-CV Death

A. Chi-square values for distance

	MEN					WOMEN				
	Number of cases	All three	Univariate			Number of cases	All three	Univariate		
Age			W	S	C			W	S	C
38-41	3	---	---	---	---	4	1.2	0.2	0.6	0.1
42-45	3	---	---	---	---	4	8.7*	3.8	6.4*	0.3
46-49	12	2.7	1.5	0.9	0.3	7	3.4	1.6	2.7	0.0
50-53	10	11.9**	0.1	8.1**	2.1	17	1.9	0.1	1.8	0.3
54-57	12	15.1**	8.6*	2.8	6.5*	13	6.3	1.6	5.8*	0.0
58-61	21	3.5	0.8	2.1	0.2	6	1.1	0.0	0.7	0.2
62-65	15	5.3	1.7	0.1	3.8	11	1.1	0.4	0.7	0.2
66-69	11	12.9**	6.6**	2.5	0.8	10	9.5*	0.5	3.5	5.7*

B. Mean Differences between cases and non-cases

	MEN				WOMEN			
Age	Number of cases	W	S	C	Number of cases	W	S	C
38-41	3	---	---	---	4	-3.8	6.4	6.7
42-45	3	---	---	---	4	16.7	24.9	-11.1
46-49	12	-4.8	-5.1	6.0	7	-8.3	-13.7	1.9
50-53	10	1.0	19.5	-18.8	17	-1.1	-8.0	-5.7
54-57	12	-11.0	-11.1	-28.7	13	6.3	17.5	-2.5
58-61	21	-2.5	8.1	4.0	6	1.4	-9.4	-8.1
62-65	15	-4.6	-1.8	-21.2	11	-3.5	-6.7	5.5
66-69	11	-11.6	12.4	-10.7	10	4.4	17.0	-34.6

C. Number of cases by level of risk

	MEN						WOMEN					
	Total		Level of risk				Total		Level of risk			
			Decile		Quintile				Decile		Quintile	
Age	at risk	Cases	High	Low	High	Low	at risk	Cases	High	Low	High	Low
38-41	728	3	---	---	---	---	864	4	2	0	2	0
42-45	900	3	---	---	---	---	1119	4	2	0	3	0
46-49	873	12	1	0	3	0	1029	7	2	0	2	0
50-53	792	10	5	1	6	2	950	17	2	0	4	2
54-57	728	12	6	0	10	1	875	13	6	1	7	2
58-61	634	21	3	1	7	2	778	6	1	0	2	0
62-65	426	15	4	0	7	0	525	11	1	0	2	1
66-69	199	11	5	0	6	0	260	10	4	0	6	1
TOTAL			24	2	39	5			20	1	28	6

W = Framingham relative weight; S = systolic blood pressure; C = serum cholesterol

* Significant at 5% level.

** Significant at 1% level. For the univariate χ^2's "significant" refers not to the values given but to the discriminant weights (See tables 23-1 et. seq.) for "all three" it refers to the significance (at 3 d.f.) of the χ^2 given for generalized distance.

NOTE: Data omitted for age groups with less than 4 cases.

Summary

Only a few brief comments have been attempted on these data. The dominant feature is the role of systolic blood pressure in all the various cardiovascular outcomes. Insofar as the amount of information available allows us to say, this role seems to be important for both men and women and for the age range under study, although there is some variation in this picture depending on the outcome under study.

Serum cholesterol plays an important role under age 50 in discriminating CHD for women and up to age 62 for men. FRW plays an uncertain part throughout.

This set of three variables discriminates best for cardiovascular death, for brain infarction and for congestive heart failure. For these outcomes one would generally do nearly as well in discrimination relying on systolic blood pressure alone as one can when all 3 measurements are used.

STATISTICAL NOTES

This section presents a series of discriminant functions for various cardiovascular events. The variables used in all of the analyses were Framingham relative weight, serum cholesterol and systolic blood pressure. (See Section 3 for a description of each of these measurements.) The populations for each event were defined as follows.

For a person to be included in an analysis he must have been within a given age range at a specific exam (2, 4 or 6) and he must have had all three of the variables measured at that exam. The population at risk for Tables 1-5 were those people who were within the given age range at exam 2, 4 or 6 and who were free of previous CHD at that particular examination. For Tables 6 and 7 the population at risk had to be free of previous CVA, for Table 8 they had to be free of previous IC, for Table 9 free of previous CHF, and for Tables 10-13 they had to be alive at the exam in question.

If a person developed the specific event (see table headings) during the four year period following the above noted age-exam combination, he was classified as a case; otherwise he was considered a non-case. For a definition of each event see Section 8.

As an example consider a man who was between the ages of 42 and 45 at Exam 4 and had all three variables measured at Exam 4, with no previous history of CHD. He would be considered at risk at Exam 4 in the analyses for Tables 1-5. If he had had any of the five forms of CHD in these tables at Exam 3, he would not have been at risk at Exam 4. He could, however, have been at risk in the 38-41 age group at Exam 2 if he had had all three variables measured at Exam 2.

It should be noted that a person could appear in all three of the age groups for an event if he never developed the event or if he developed it after Exam 6. As an example, if a person was 38 at Exam 2 and took Exams 2, 4 and 6 and developed no form of CHD, he would be in the 38-41 age group at Exam 2, the 42-45 age group at Exam 4 and the 46-49 age group at 6 (assuming that he had had all three variables measured at Exams 2, 4 and 6).

The calculations were performed as follows.

The discriminant weights came from the matrix multiplication $(x'x)^{-1}d$; where $(x'x)$ is the sample variance-covariance matrix and d is the vector of mean differences. The chi-square for generalized distance (with n degrees of freedom) is calculated as

$$X^2 = \left[\frac{n_1 n_o}{n_1 + n_o}\right] \left(\sum_{i=1}^{n} b_i d_i\right)$$

where b_i = discriminant weight of ith variable

d_i = mean difference of ith variable

n = number of variables

n_1 = number of cases

n_o = number of non-cases

Individual chi-squares come from the expression:

$$\left[\frac{n_1 n_o}{n_1 + n_o}\right] (d_i / s_i)^2$$

where s_i = standard deviation of the ith variable

NOMOGRAMS OF RISK FROM CHD IN MEN BY BLOOD PRESSURE AND SERUM CHOLESTEROL LEVEL.

Preparation of the Nomograms

An approach which yields results similar to those of the discriminant analysis, but which is less restrictive in its assumption is to fit the data to the logistic model defined as

$$P \text{ (probability of CHD)} = \frac{1}{1 + \exp\left[-\sum_{j=1}^{8} a_j z_j - \sum_{1}^{4} x_i b_i\right]}$$

where

X_1 = Systolic blood pressure

X_2 = Serum cholesterol

X_3 = Age

X_4 = Age - cholesterol interaction

Z_j = 1, if the individual is in the jth group

= 0, otherwise

The population used for the above calculation is described in the Statistical Notes section, however, for this analysis a person did not have to have a relative weight measurement.

The coefficients a_j $(j = 1 \ldots 8)$ b_i $(i = 1 \ldots 4)$ are obtained as the end product of an iterative least squares algorithm described by S. Walker and D. Duncan (Biometrika [1967] Vol. 54, p.167). Each of the a_j $(j = 1 \ldots 8)$ is indicative of a different intercept for the eight individual age groups.

Using these results, a set of graphs (Figures 23-25 through 23-35) were constructed to depict the increasing risk, for six specific ages, for serum cholesterol levels at discrete values of systolic blood pressure and for systolic blood pressure levels at discrete values of serum cholesterol. (Approximate diastolic equivalents are also included on these figures). The average incidence was determined by adjusting the observed incidence for the appropriate age group (38-41 in the instance of the graph for a 40-year old) to the specific age used.

Figure 23-24

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL: FRAMINGHAM STUDY MEN, 40 YEARS OF AGE

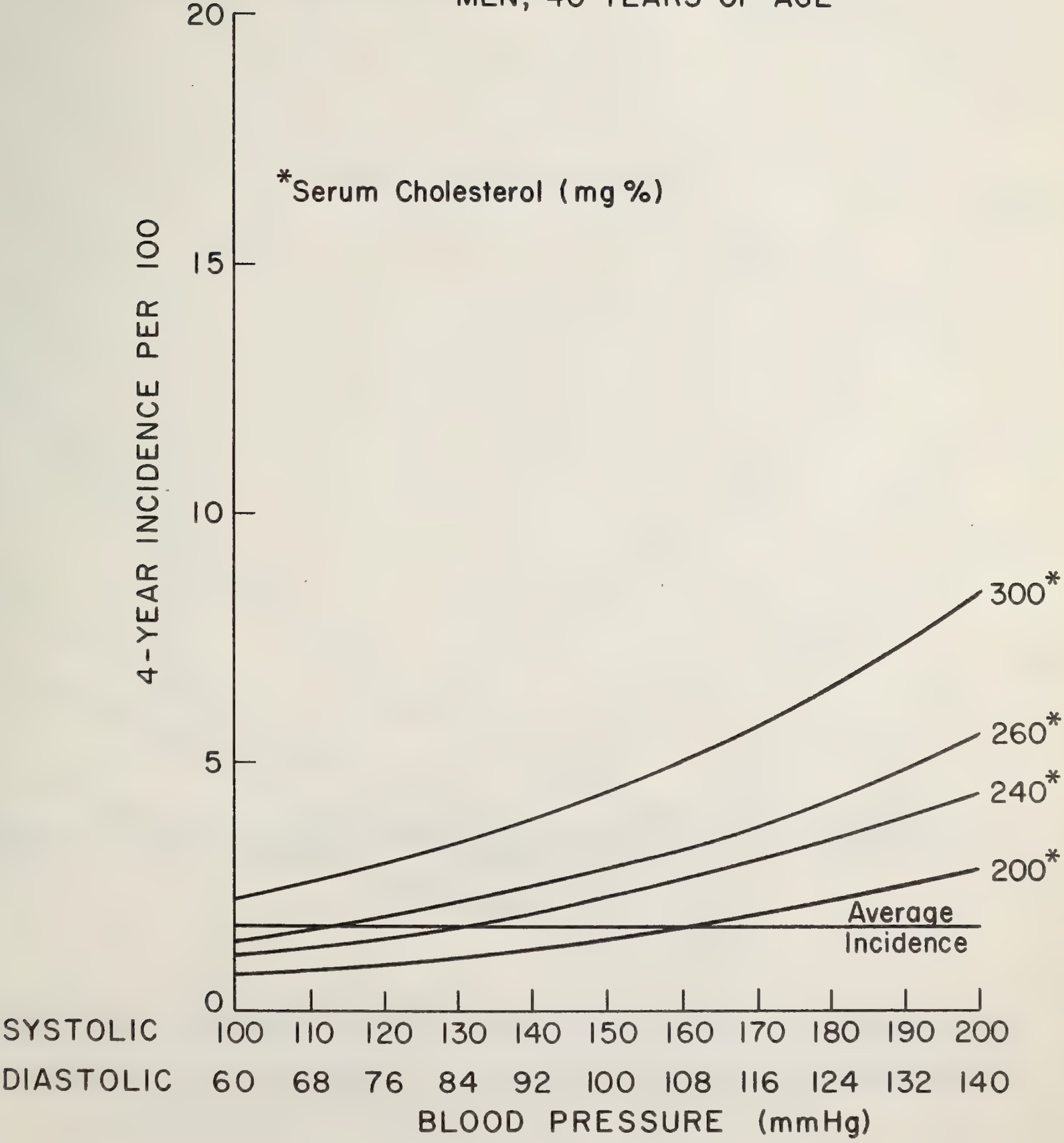


Figure 23-25

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL: FRAMINGHAM STUDY MEN, 45 YEARS OF AGE

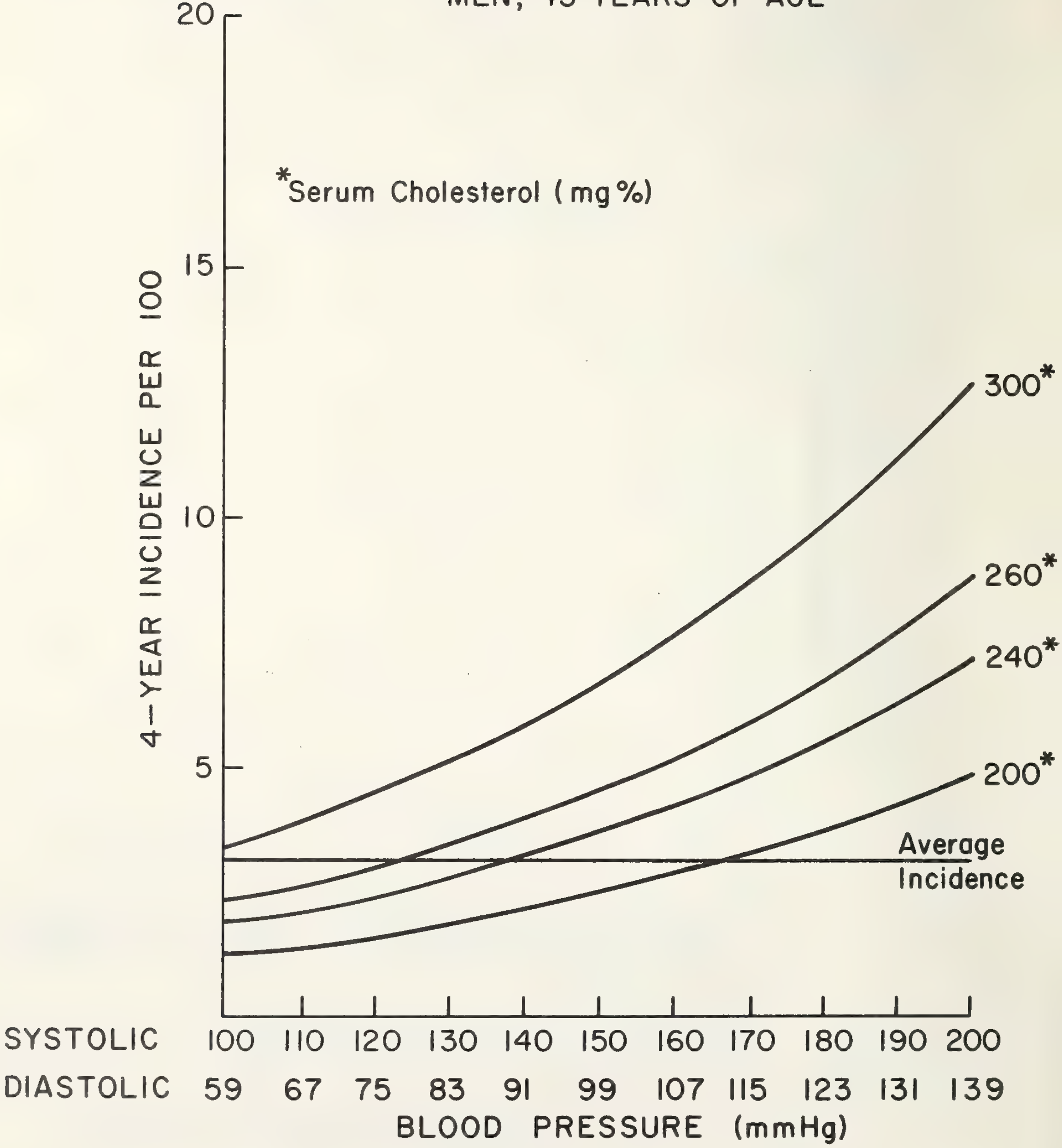


Figure 23-26

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL: FRAMINGHAM STUDY
MEN, 50 YEARS OF AGE

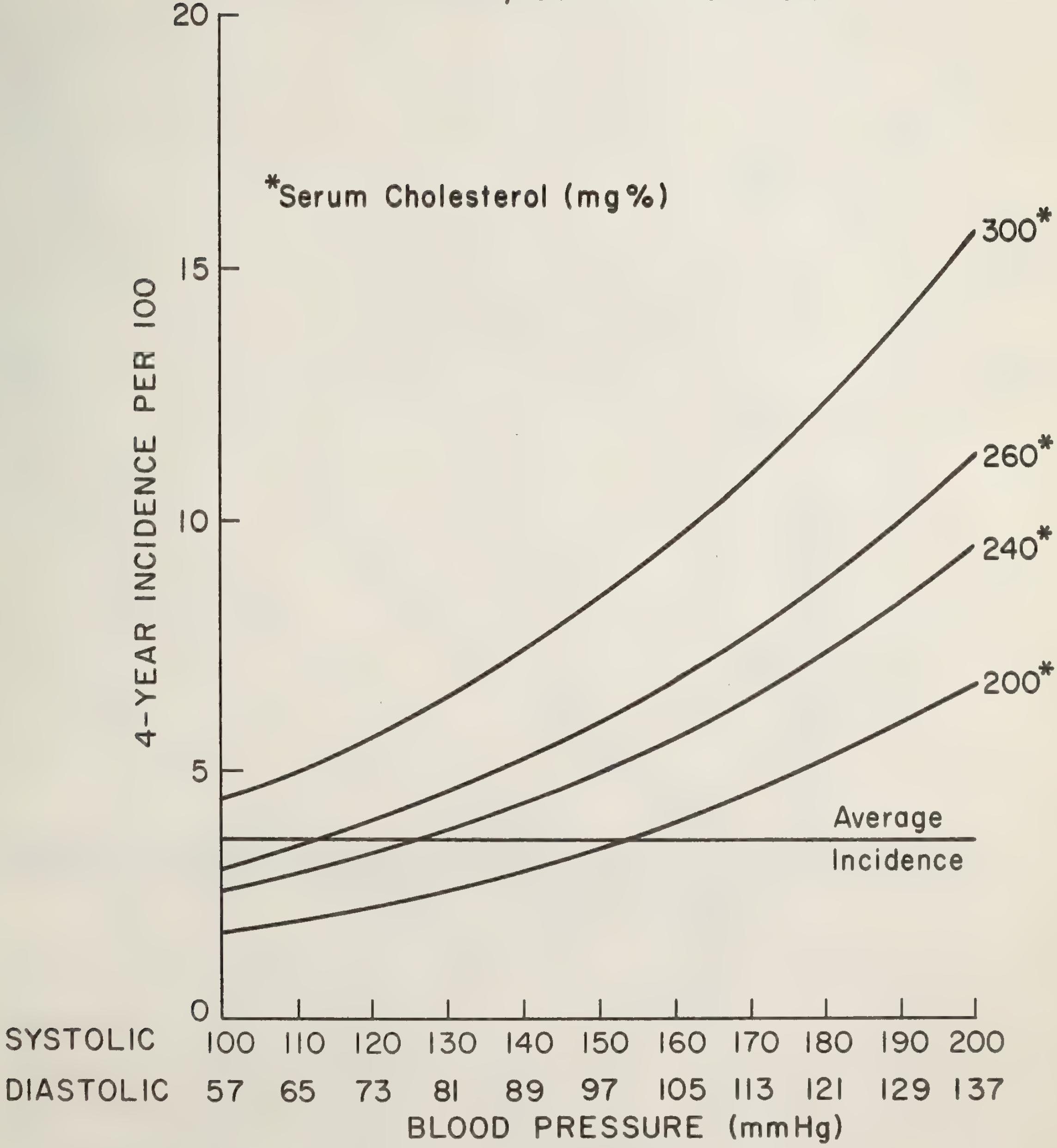


Figure 23-27

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL: FRAMINGHAM STUDY MEN, 55 YEARS OF AGE

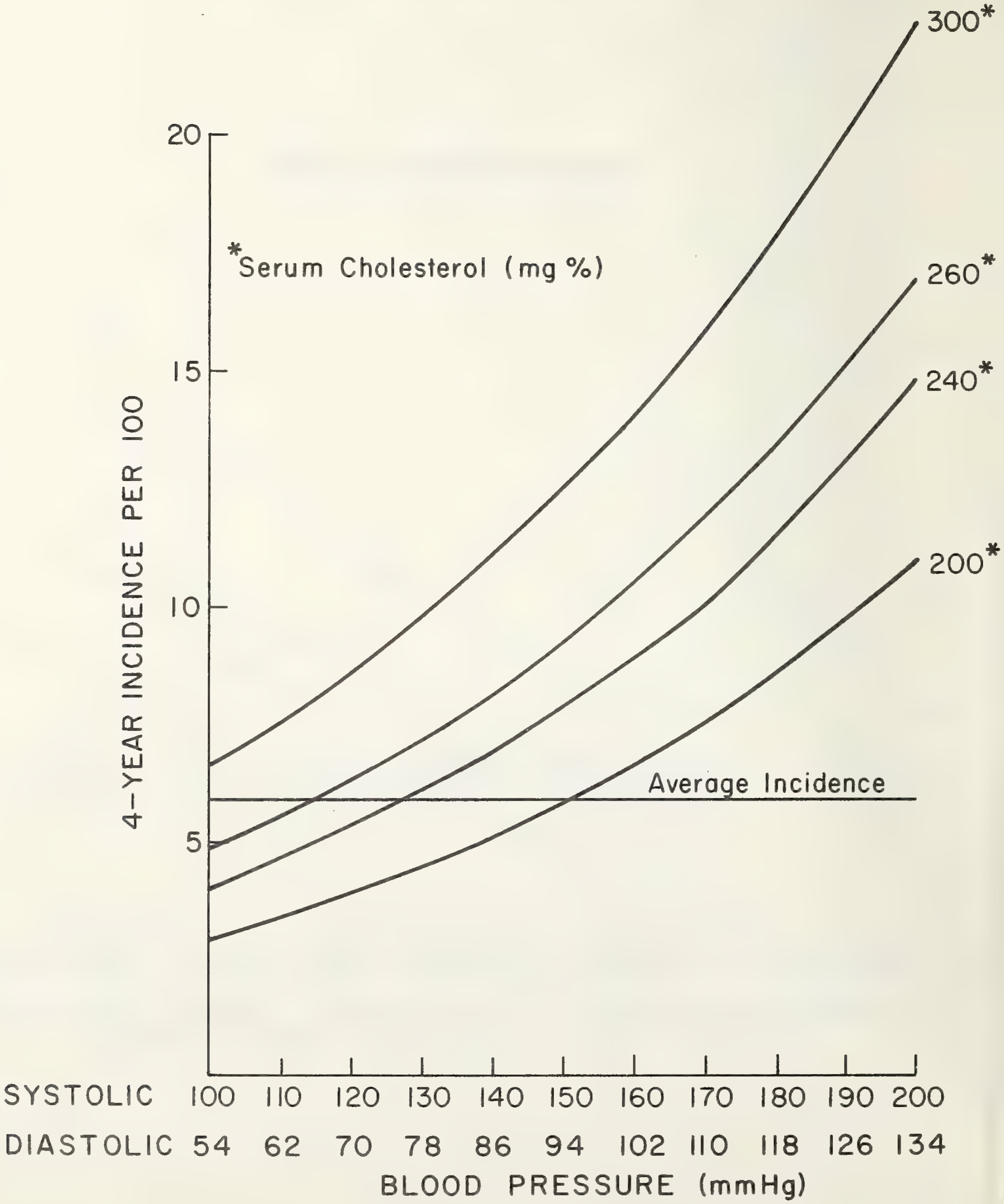


Figure 23-28

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL: FRAMINGHAM STUDY MEN, 60 YEARS OF AGE

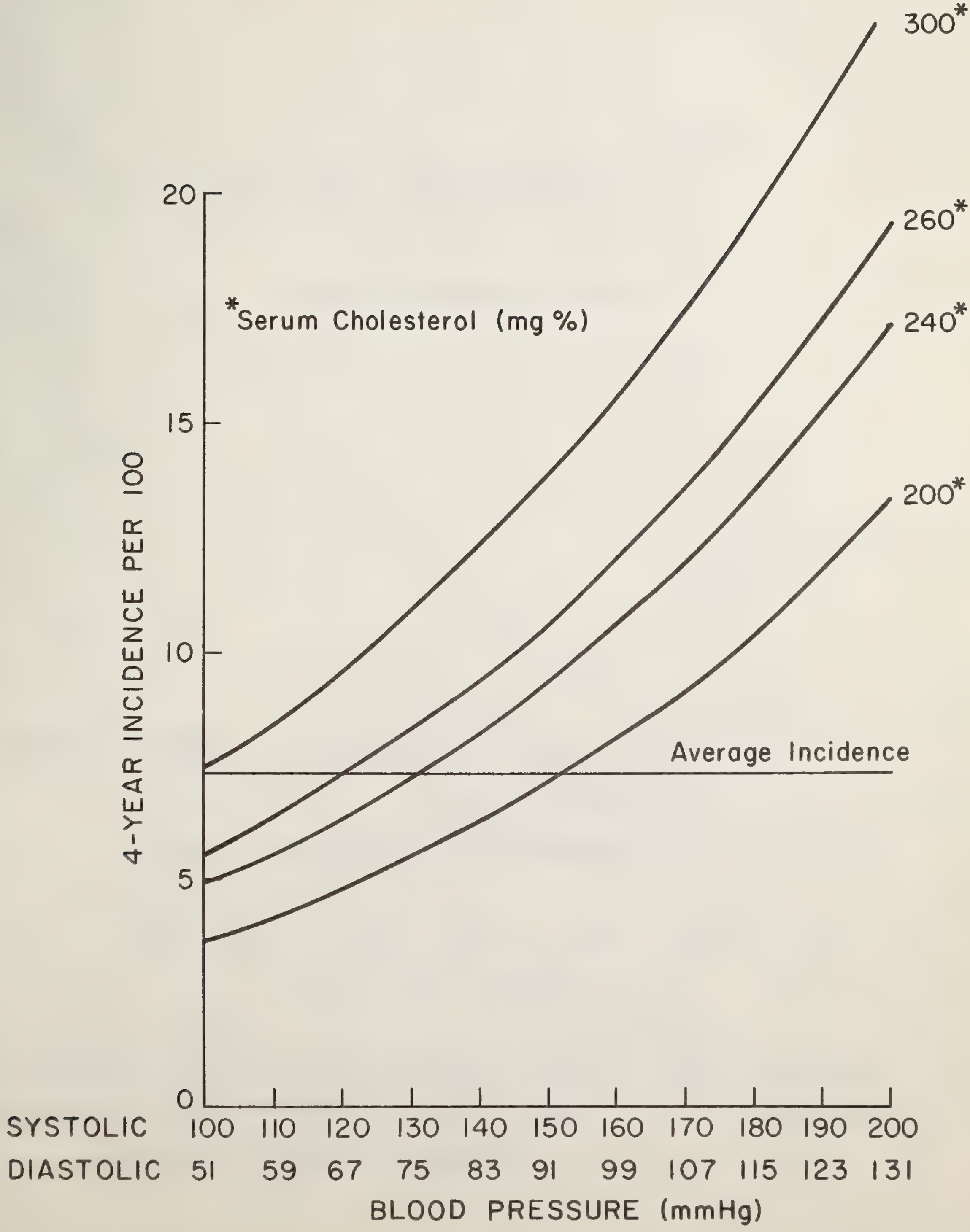


Figure 23-29

4-YEAR INCIDENCE OF CHD ACCORDING TO SYSTOLIC BLOOD PRESSURE AT SPECIFIED LEVELS OF SERUM CHOLESTEROL : FRAMINGHAM STUDY MEN, 65 YEARS OF AGE

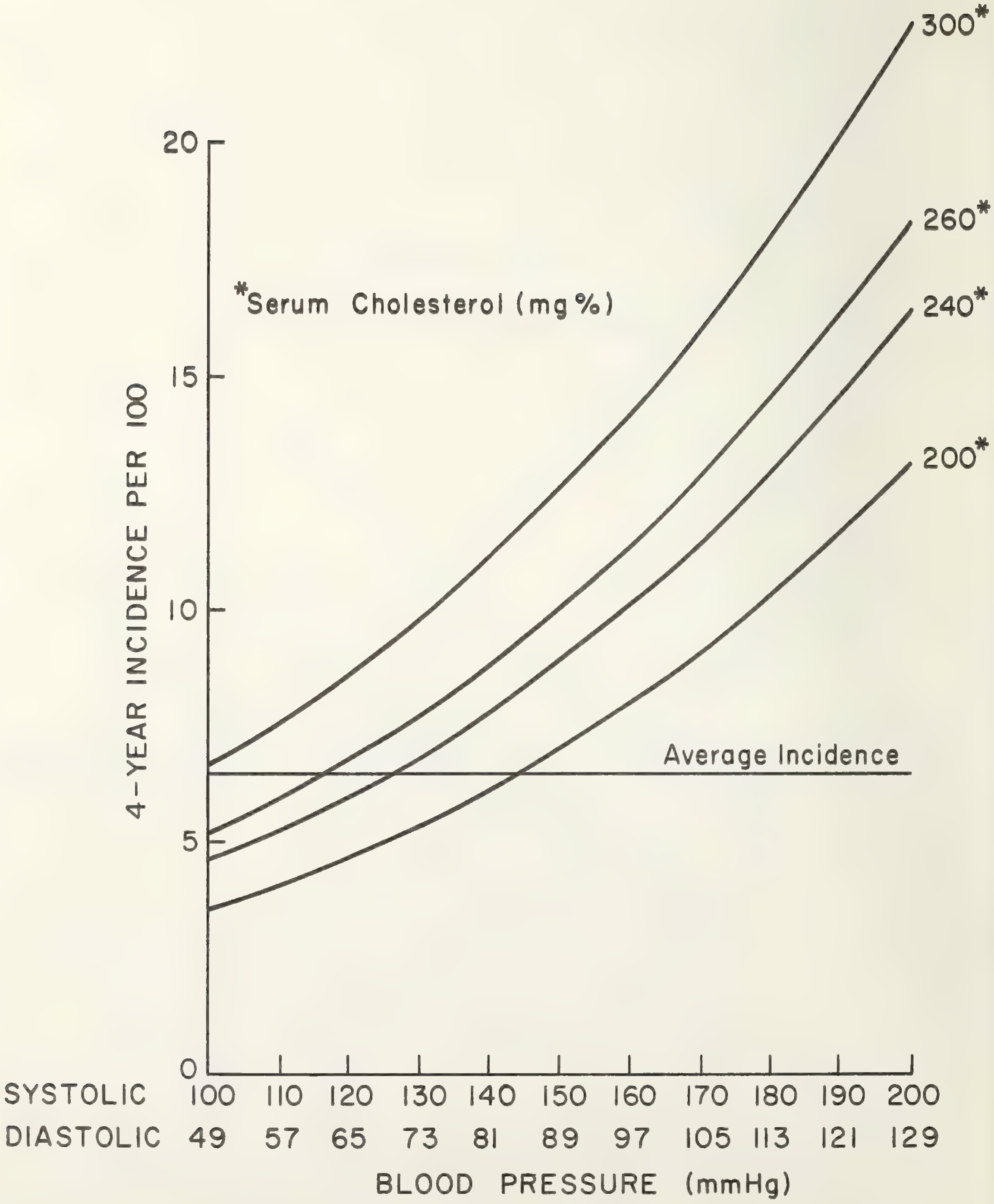


Figure 23-30

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE: FRAMINGHAM STUDY MEN, 40 YEARS OF AGE

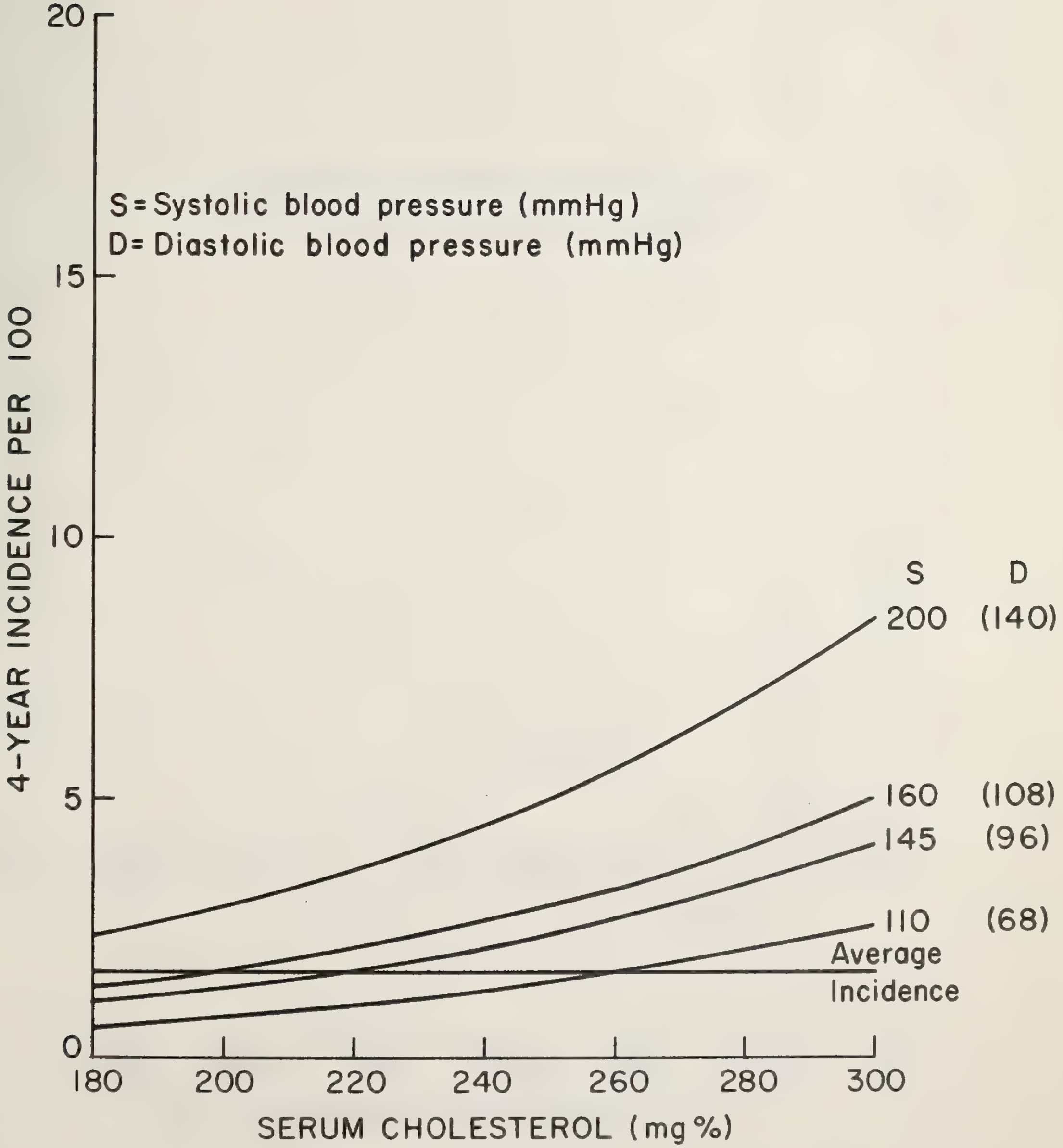


Figure 23-31

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE: FRAMINGHAM STUDY MEN, 45 YEARS OF AGE

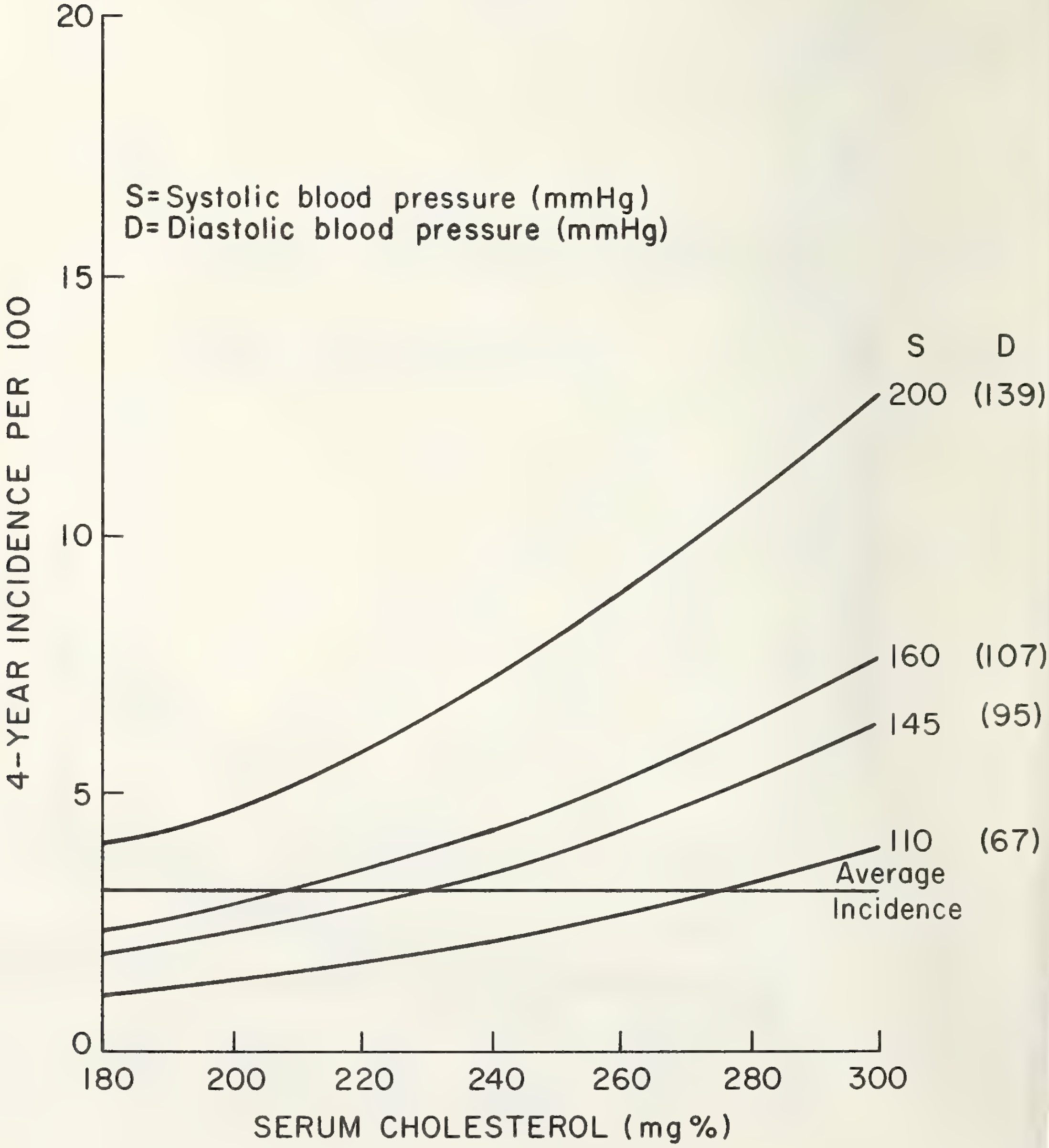


Figure 23-32

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE : FRAMINGHAM STUDY MEN, 50 YEARS OF AGE

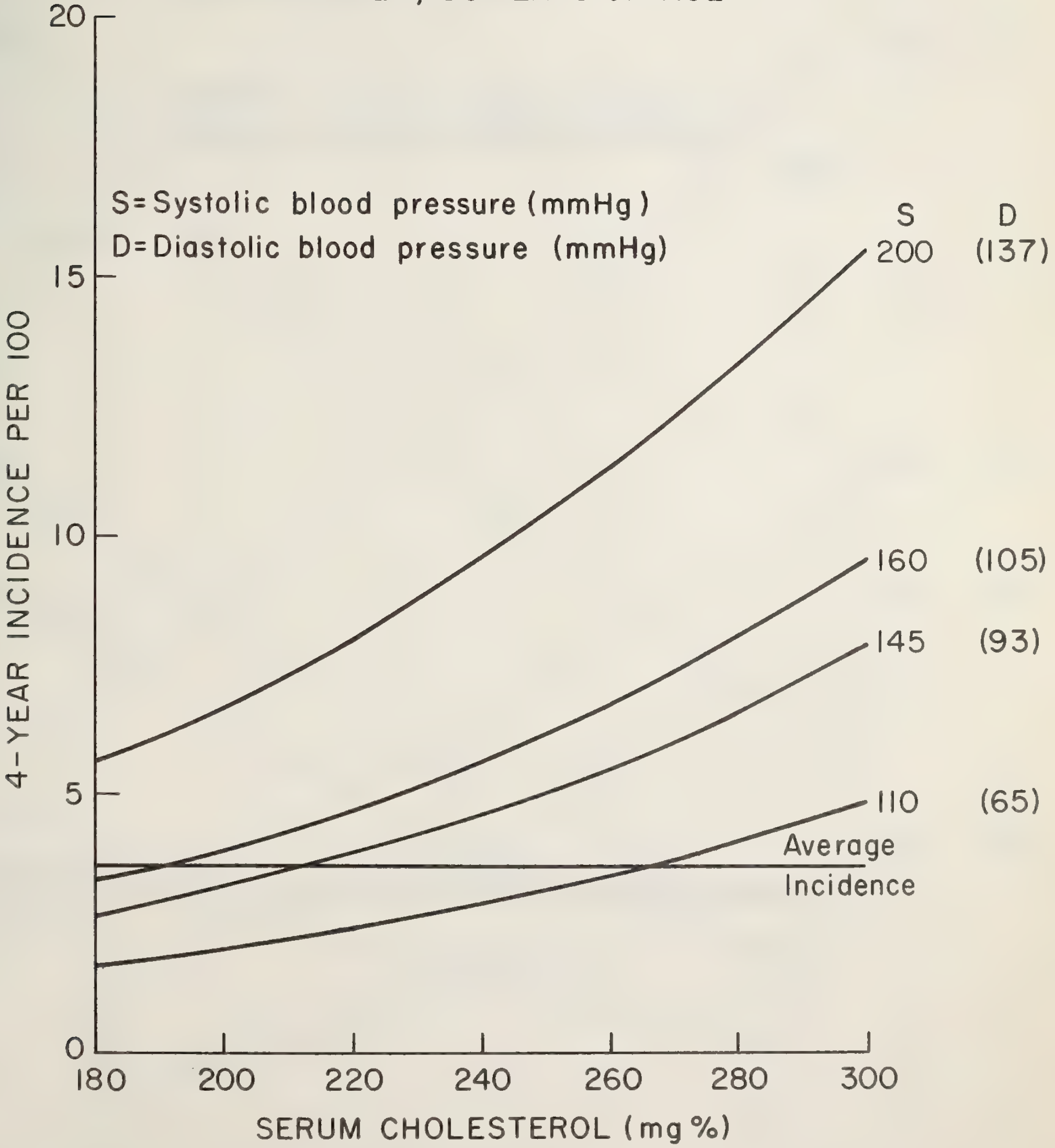


Figure 23-33

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE: FRAMINGHAM STUDY
MEN, 55 YEARS OF AGE

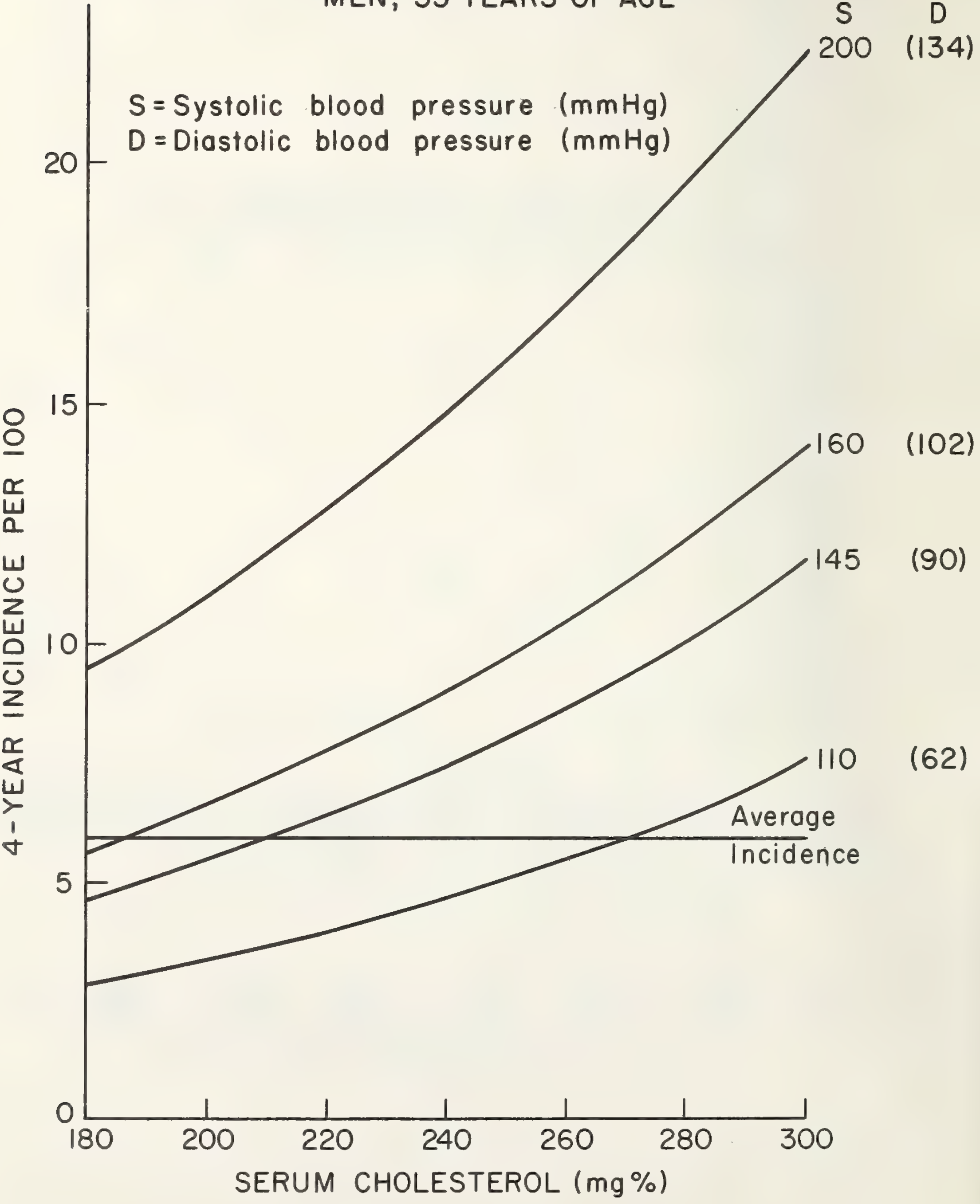


Figure 23-34

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE: FRAMINGHAM STUDY MEN, 60 YEARS OF AGE

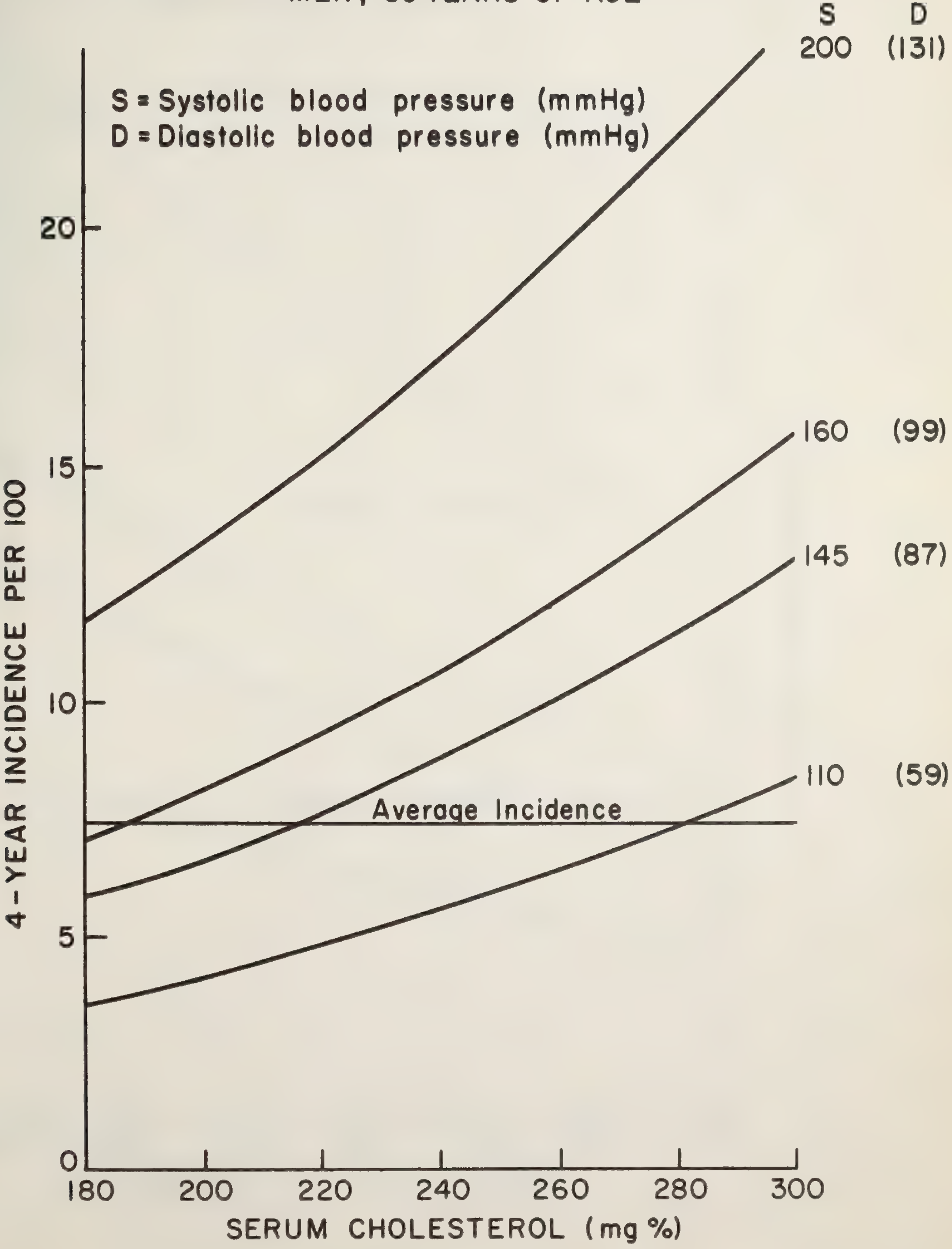
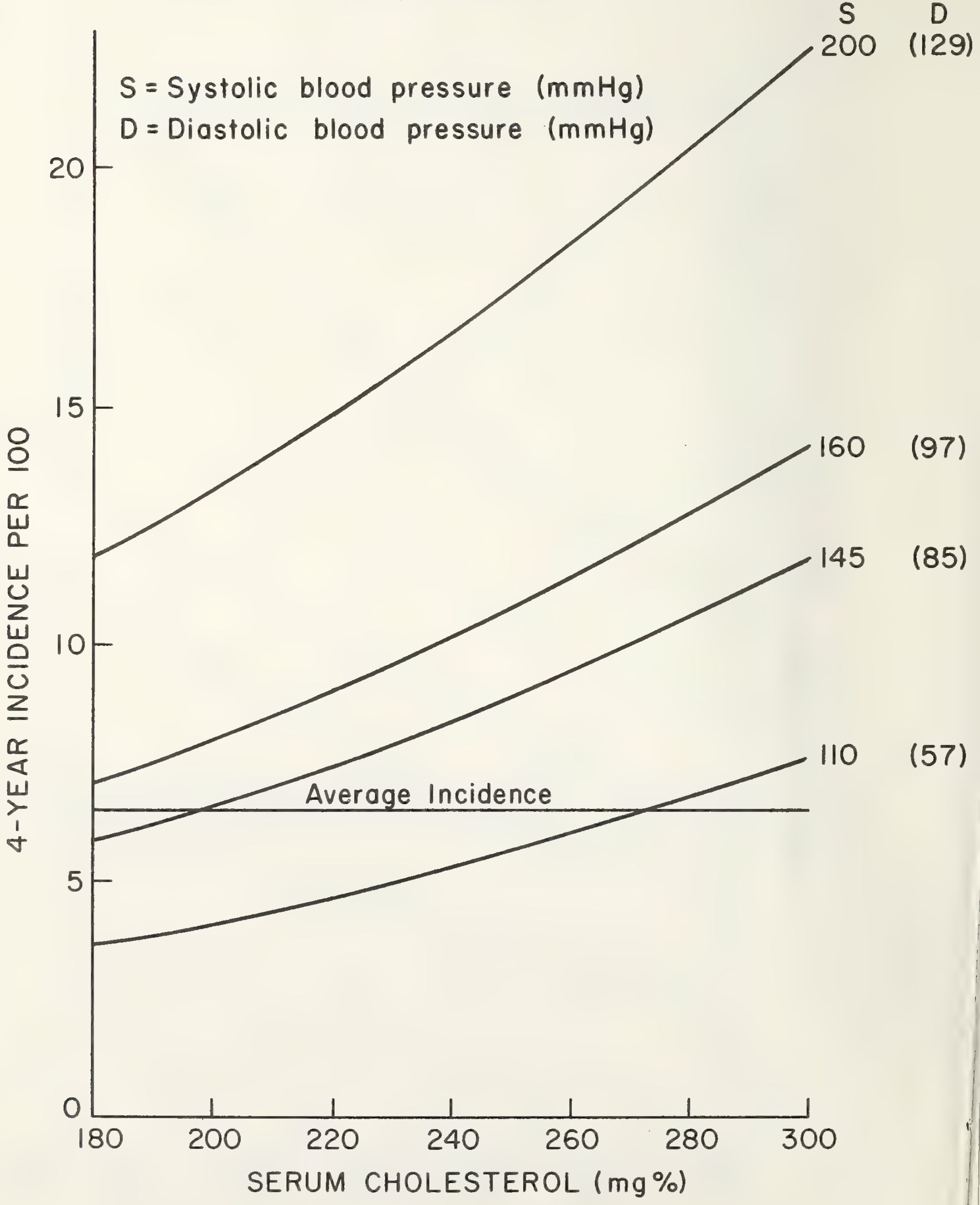


Figure 23-35

4-YEAR INCIDENCE OF CHD ACCORDING TO SERUM CHOLESTEROL LEVEL AT SPECIFIED LEVELS OF SYSTOLIC BLOOD PRESSURE : FRAMINGHAM STUDY MEN, 65 YEARS OF AGE



APPENDIX TABLES

Section 23. Discriminant analysis: The discrimination of various cardiovascular events and deaths on the basis of Framingham relative weight, systolic blood pressure and serum cholesterol in various age-sex groups.

A. Men
B. Women

Events	Table Number
Coronary Heart Disease, Total	1
Myocardial Infarction, Total	2
Angina Pectoris, Uncomplicated	3
CHD Death	
Sudden	4
Non-Sudden	5
Cerebrovascular Accidents	
Total	6
Brain Infarction	7
Intermittent Claudication	8
Congestive Heart Failure	9
Death	
All Causes	10
CHD	11
CV other than CHD	12
Non-CV	13

May 1969

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                                              TABLE 23-A-1.1
                                      THIS ANALYSIS IS FOR TOTAL CHD
                                     MEN  38-41  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 702          NUMBER OF CASES (N1) =  13          TOTAL NUMBER BEFORE EXCLUSIONS =  835

                AVG X(1)         AVG X(0)      DIFF          CHI SQ.         STND DEV          DISCRIMINANT           STANDARD ERROR        T
                 (CASES)        (NON-CASES)                                 OF VARIABLE         COEFFICIENT           OF COEFFICIENT
1      FRW     108.69231        103.05983     5.63248          2.30         13.25528            0.01094771             0.02248743         0.487
2  SYSTOLIC    137.07692        127.37892     9.69801          4.56         16.23322            0.02952192             0.01816320         1.625
3  CHOLSTRL    265.15385        229.93732    35.21652          8.47         43.23077            0.01716088             0.00658474         2.606
 INTERCEPT                                                                                    -13.29980673
 HI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    12.15


 RIANCE-COVARIANCE MATRIX FOR NON-CASES                                             VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW            176.27078      67.42738      104.94818                                FRW        135.96667      33.73333    -178.55000
  STOLIC          67.42738     264.91459       69.37101                             SYSTOLIC       33.73333     165.86667      48.80000
 HOLSTRL         104.94818      69.37101     1862.75177                             CHOLSTRL     -178.55000      48.80000    2298.61667


         RIANCE-COVARIANCE MATRIX                                                   POOLED CORRELATION MATRIX
  FRW            175.70232      66.95214      100.94961                                FRW         1.00000       0.31115       0.17617
  TOLI            66.95214     263.51758       69.08086                             SYSTOLIC       0.31115       1.00000       0.09844
  LS             100.94961      69.08086     1868.89937                             CHOLSTRL       0.17617       0.09844       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF       BETA*     STND ERR B  INTERCEPT

    FRW

AT EXAM NO.2       318      312    6      183.72974     128.16667     102.17949   103.16667     0.9872   -0.02669     0.03308   -11.77003
AT EXAM NO.4       310      304    6      174.67638     143.76667     103.08224   115.83333    12.7511    0.06175     0.03301   -15.12271
AT EXAM NO.6        87       86    1      154.66334       0.0         106.17442    99.00000    -7.1744   -0.08876     0.08441   -16.13235

SYSTOLIC

AT EXAM NO.2       318      312    6      238.98589     212.26667     126.96474   133.33333     6.3686    0.02662     0.02820   -11.77003
AT EXAM NO.4       310      304    6      294.10742     119.46667     127.43092   138.66667    11.2357    0.02162     0.02553   -15.12271
AT EXAM NO.6        87       86    1      255.71929       0.0         128.69767   150.00000    21.3023    0.10487     0.06559   -16.13235

CHOLSTRL

AT EXAM NO.2       318      312    6     1854.54488    2789.46667     224.79167   275.66667    50.8750    0.02835     0.00984   -11.77003
AT EXAM NO.4       310 [illegible] 6     1860.88792    1807.76667     234.34868   253.16667    18.8180    0.00641     0.00970   -15.12271
AT EXAM NO.6        87       86    1     1899.42339       0.0         233.01163   274.00000    40.9884    0.02434     0.02315   -16.13235


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     9.33
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.77
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.82
                                                                                                             * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-1.2
                                 THIS ANALYSIS IS FOR TOTAL CHD
                                MEN  42-45  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 851          NUMBER OF CASES (N1) =  25          TOTAL NUMBER BEFORE EXCLUSIONS = 1054

                  AVG X(1)        AVG X(0)        DIFF         CHI SQ.       STND DEV         DISCRIMINANT         STANDARD ERROR        T
                  (CASES)        (NON-CASES)                                OF VARIABLE       COEFFICIENT          OF COEFFICIENT
 1      FRW      104.96000       103.32315      1.63685          0.34        13.79128          0.00377736           0.01537576         0.246
 2  SYSTOLIC     130.76000       130.00588      0.75412          0.05        17.28642         -0.00236427           0.01223904        -0.193
 3  CHOLSTRL     255.56000       235.19154     20.36846          5.09        44.51150          0.01022522           0.00465811         2.195
   INTERCEPT                                                                                  -6.12167748
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =      5.17


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                               VARIANCE-COVARIANCE MATRIX FOR CASES
     FRW            191.37320       63.69013      104.37702                                 FRW         144.95909      -10.92424       93.70303
 SYSTOLIC            63.69013      299.86643      116.09166                             SYSTOLIC        -10.92424      258.49495      271.17677
 CHOLSTRL           104.37702      116.09166     1986.34974                             CHOLSTRL         93.70303      271.17677     1785.59646

 POOLED VARIANCE-COVARIANCE MATRIX                                                      POOLED CORRELATION MATRIX
     FRW            190.19951       61.80333      104.10710                                 FRW           1.00000        0.25924        0.16959
 SYSTOLIC            61.80333      298.82026      120.01335                             SYSTOLIC          0.25924        1.00000        0.15597
 CHOLSTRL           104.10710      120.01335     1981.27322                             CHOLSTRL          0.16959        0.15597        1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                     NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B   INTERCEPT

     FRW

 AT EXAM NO.2       276       270      6       187.57842      118.70000     102.39630    107.50000       5.1037     0.02093     0.03104     -8.53946
 AT EXAM NO.4       302       293      9       188.33749      181.00000     103.67235    109.66667       5.9943     0.02647     0.02601     -8.64254
 AT EXAM NO.6       298       288     10       198.01857      127.51111     103.83681     99.20000      -4.6368    -0.02791     0.02443     -2.76786

 SYSTOLIC

 AT EXAM NO.2       276       270      6       323.67088      182.40000     132.51111    135.00000       2.4889     0.00117     0.02353     -8.53946
 AT EXAM NO.4       302       293      9       264.97277      397.61111     127.81570    129.88889       2.0732    -0.00352     0.02170     -8.64254
 AT EXAM NO.6       298       288     10       313.05651      177.11111     129.88542    129.00000      -0.8854     0.00128     0.01947     -2.76786

 CHOLSTRL

 AT EXAM NO.2       276       270      6      2442.18066     1764.66667     229.19630    255.66667      26.4704     0.00982     0.00857     -8.53946
 AT EXAM NO.4       302       293      9      1665.55075     2585.61111     233.11945    254.88889      21.7694     0.01143     0.00846     -8.64254
 AT EXAM NO.6       298       288     10      1885.49534     1086.10000     242.92014    256.10000      13.1799     0.00831     0.00758     -2.76786


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =      2.17
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =      3.50
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =      2.30
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                                         TABLE 23-A-1.3
                                                  THIS ANALYSIS IS FOR TOTAL CHD
                                                MEN  46-49  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 815          NUMBER OF CASES (N1) =  27         TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                 AVG X(1)          AVG X(0)      DIFF          CHI SQ.        STND DEV         DISCRIMINANT          STANDARD ERROR       T
                  (CASES)        (NON-CASES)                                 OF VARIABLE       COEFFICIENT           OF COEFFICIENT
1      FRW       109.25926        102.63190     6.62736          6.23         13.57739          0.02761273            0.01494024         1.848
2  SYSTOLIC      135.66667        131.26503     4.40164          1.54         18.11851          0.00499240            0.01111565         0.449
3  CHOLSTRL      259.81481        235.93988    23.87494          9.01         40.65247          0.01240900            0.00492664         2.519
  INTERCEPT                                                                                   -10.07502350
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    13.10


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             186.94705       54.03402     109.42304                     FRW          96.32528      -2.80213   -121.79539
SYSTOLIC            54.03402      327.31375      98.00178                  SYSTOLIC        -2.80213     360.98268    377.73521
CHOLSTRL           109.42304       98.00178    1642.87813                  CHOLSTRL      -121.79539     377.73521   1982.33285


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW             184.34547       52.40236     102.78519                     FRW           1.00000       0.21302      0.18622
SYSTOLIC            52.40236      328.28032     106.03240                  SYSTOLIC         0.21302       1.00000      0.14396
CHOLSTRL           102.78519      106.03240    1652.62324                  CHOLSTRL         0.18622       0.14396      1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B   INTERCEPT

   FRW

AT EXAM NO.2      286      277     9     181.31207       66.02778     101.70036    104.44444      2.7441     0.01499     0.02602     -7.21996
AT EXAM NO.4      267      256    11     195.29387      133.27273     102.76562    111.54545      8.7798     0.03234     0.02312    -11.78012
AT EXAM NO.6      289      282     7     184.90725       75.14286     103.42553    111.85714      8.4316     0.03835     0.02967    -10.98727

SYSTOLIC

AT EXAM NO.2      286      277     9     294.36917      316.25000     130.61011    128.66667     -1.9434    -0.01468     0.02038     -7.21996
AT EXAM NO.4      267      256    11     389.20146      532.67273     132.81641    140.45455      7.6381     0.00982     0.01594    -11.78012
AT EXAM NO.6      289      282     7     303.51068      134.47619     130.50000    137.14286      6.6429     0.01374     0.02274    -10.98727

CHOLSTRL

AT EXAM NO.2      286      277     9    1256.07416     1567.27778     229.28520    250.44444     21.1592     0.01731     0.00966     -7.21996
AT EXAM NO.4      267      256    11    1682.28603     3054.09091     236.10937    267.90909     31.7997     0.01518     0.00764    -11.78012
AT EXAM NO.6      289      282     7    1987.03785      749.47619     242.32270    259.14286     16.8202     0.00528     0.00889    -10.98727


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =      3.80
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =      8.88
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =      3.44

                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                          TABLE 23-A-1.4
                                                   THIS ANALYSIS IS FOR TOTAL CHD
                                                  MEN  50-53  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 711          NUMBER OF CASES (N1) =  42          TOTAL NUMBER BEFORE EXCLUSIONS =  930

                 AVG X(1)       AVG X(0)      DIFF          CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR       T
                 (CASES)      (NON-CASES)                                 OF VARIABLE       COEFFICIENT           OF COEFFICIENT
 1      FRW     108.23810     102.90717     5.33092          6.90        12.78425          0.02313168            0.01278722         1.809
 2  SYSTOLIC    143.78571     134.16878     9.61694          8.09        21.29528          0.01481137            0.00771170         1.921
 3  CHOLSTRL    258.33333     235.40928    22.92405         13.20        39.74034          0.01270483            0.00404320         3.142
  INTERCEPT                                                                              -10.46597707
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    22.09


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW           161.71742     58.37139      60.79191                             FRW        194.65446     128.02564    -150.91209
 SYSTOLIC          58.37139    445.60724     129.28749                          SYSTOLIC      128.02564     596.57326    -137.22711
 CHOLSTRL          60.79191    129.28749    1520.23042                          CHOLSTRL     -150.91209    -137.22711    2651.53114

 POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
    FRW           163.43702     62.00796      49.73909                             FRW          1.00000       0.22777       0.09790
 SYSTOLIC          62.00796    453.48900     115.37308                          SYSTOLIC        0.22777       1.00000       0.13633
 CHOLSTRL          49.73909    115.37308    1579.29431                          CHOLSTRL        0.09790       0.13633       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                NO + N1     NO      N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF      BETA*     STND ERR B  INTERCEPT

     FRW

  AT EXAM NO.2    248      241       7      146.86674       67.47619     103.53112    111.14286       7.6117    0.04686     0.03343    -11.86590
  AT EXAM NO.4    261      240      21      162.61227      215.96190     102.58333    105.80952       3.2262    0.01366     0.01805     -6.56289
  AT EXAM NO.6    244      230      14      176.34752      220.57143     102.59130    110.42857       7.8373    0.02890     0.02104    -14.34727

  SYSTOLIC

  AT EXAM NO.2    248      241       7      496.87165      473.47619     134.10788    142.14286       8.0350    0.00659     0.01814    -11.86590
  AT EXAM NO.4    261      240      21      402.76646      606.42857     132.60833    140.14286       7.5345    0.01578     0.01142     -6.56289
  AT EXAM NO.6    244      230      14      436.59191      638.22527     135.86087    150.07143      14.2106    0.02075     0.01339    -14.34727

  CHOLSTRL

  AT EXAM NO.2    248      241       7     1498.53164     1014.28571     228.63900    245.57143      16.9324    0.01007     0.01001    -11.86590
  AT EXAM NO.4    261      240      21     1186.54601      973.01429     236.04583    240.71429       4.6685    0.00232     0.00672     -6.56289
  AT EXAM NO.6    244      230      14     1891.22728     5989.51648     241.83913    291.14286      49.3037    0.02065     0.00611    -14.34727


  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.95
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.36
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    20.32
                                                                                                            * DISCRIMINANT COEFFICIENT
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                                            TABLE 23-A-1.5
                                    THIS ANALYSIS IS FOR TOTAL CHD
                                  MEN  54-57  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 616         NUMBER OF CASES (N1) =  54         TOTAL NUMBER BEFORE EXCLUSIONS =  885

                AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR      T
                (CASES)      (NON-CASES)                             OF VARIABLE     COEFFICIENT        OF COEFFICIENT
1     FRW      106.88889     103.29870    3.59019         3.92      12.77632         0.01402819         0.01138258        1.232
2  SYSTOLIC    147.38889     137.50162    9.88727         9.14      23.04330         0.01544520         0.00632309        2.443
3  CHOLSTRL    249.98148     233.71104   16.27044         8.99      38.24058         0.00994675         0.00373191        2.665
 INTERCEPT                                                                          -8.51421814
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   18.12



VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           160.05797     62.81233     35.36295                         FRW      201.41474     59.95731      11.53302
SYSTOLIC         62.81233    529.80491     87.77236                       SYSTOLIC    59.95731    545.28094       2.49059
CHOLSTRL         35.36295     87.77236   1476.53090                       CHOLSTRL    11.53302      2.49059    1291.80087


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW           163.23447     62.59304     33.53264                         FRW        1.00000      0.21261       0.06863
SYSTOLIC         62.59304    530.99358     81.22211                       SYSTOLIC     0.21261      1.00000       0.09217
CHOLSTRL         33.53264     81.22211   1462.34229                       CHOLSTRL     0.06863      0.09217       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     221      203    18    153.68127      322.99673      102.82266    101.94444     -0.8782    -0.01657    0.01938    -7.76732
AT EXAM NO.4     222      205    17    157.60746      160.02941      104.58049    109.17647      4.5960     0.02312    0.02089    -8.14716
AT EXAM NO.6     227      208    19    168.69565      123.37427      102.50000    109.52632      7.0263     0.03562    0.01915    -9.55681

SYSTOLIC

AT EXAM NO.2     221      203    18    633.31595      500.18301      139.97044    151.22222     11.2518     0.01841    0.00998    -7.76732
AT EXAM NO.4     222      205    17    504.92315      665.31618      137.18049    145.76471      8.5842     0.01199    0.01161    -8.14716
AT EXAM NO.6     227      208    19    453.31529      481.17544      135.40865    145.21053      9.8019     0.01575    0.01159    -9.55681

CHOLSTRL

AT EXAM NO.2     221      203    18   1536.14193     1954.48693      224.12808    252.61111     28.4830     0.01829    0.00624    -7.76732
AT EXAM NO.4     222      205    17   1592.79904      794.24265      235.64390    246.35294     10.7090     0.00618    0.00648    -8.14716
AT EXAM NO.6     227      208    19   1303.77664     1108.20468      241.15865    250.73684      9.5782     0.00479    0.00677    -9.55681


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    12.28
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.32
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.84
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-1.6
                                 THIS ANALYSIS IS FOR TOTAL CHD
                                MEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 514         NUMBER OF CASES (N1) =  49        TOTAL NUMBER BEFORE EXCLUSIONS =  782

                   AVG X(1)       AVG X(0)       DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                   (CASES)       (NON-CASES)                              OF VARIABLE      COEFFICIENT         OF COEFFICIENT
 1      FRW       106.42857      102.38132     4.04725         4.93       12.19457          0.02230624          0.01234003       1.808
 2  SYSTOLIC      153.12245      138.27043    14.85202        16.30       24.60769          0.02195300          0.00615678       3.566
 3  CHOLSTRL      246.61224      232.87743    13.73481         5.32       39.84411          0.00709697          0.00377840       1.878
   INTERCEPT                                                                               -9.57922089
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   22.99


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            149.81284      35.20415     -11.75252                       FRW         136.43032     16.78222     114.69138
 SYSTOLIC          35.20415     576.82391     108.44426                     SYSTOLIC       16.78222    924.51720     172.72699
 CHOLSTRL         -11.75252     108.44426    1521.37994                     CHOLSTRL      114.69138    172.72699    2322.65025


 POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW            148.70764      33.68277      -1.31011                       FRW           1.00000      0.11225      -0.00270
 SYSTOLIC          33.68277     605.53825     113.75307                     SYSTOLIC        0.11225      1.00000       0.11602
 CHOLSTRL          -1.31011     113.75307    1587.55307                     CHOLSTRL       -0.00270      0.11602       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2    170     151    19     176.30570      113.44444      99.88079   105.00000      5.1192    0.02621     0.01884     -8.90112
 AT EXAM NO.4    197     183    14     134.33477      168.79670     103.25683   109.21429      5.9575    0.03765     0.02380    -15.19664
 AT EXAM NO.6    196     180    16     143.34960      135.96250     103.58889   105.68750      2.0986    0.01088     0.02203     -6.51516

 SYSTOLIC

 AT EXAM NO.2    170     151    19     622.91700      985.87135     137.46358   151.26316     13.7996    0.01780     0.00962     -8.90112
 AT EXAM NO.4    197     183    14     554.55888      677.87363     137.15301   160.21429     23.0613    0.03869     0.01174    -15.19664
 AT EXAM NO.6    196     180    16     560.83659     1064.65000     140.08333   149.12500      9.0417    0.01318     0.01091     -6.51516

 CHOLSTRL

 AT EXAM NO.2    170     151    19    1603.13051     2925.49708     229.94702   243.94737     14.0003    0.00664     0.00588     -8.90112
 AT EXAM NO.4    197     183    14    1572.96847     1083.01648     229.59016   249.35714     19.7670    0.01200     0.00707    -15.19664
 AT EXAM NO.6    196     180    16    1400.42073     2673.58333     238.67778   247.37500      8.6972    0.00432     0.00684     -6.51516


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.98
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    17.61
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.64
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-A-1.7
                                    THIS ANALYSIS IS FOR TOTAL CHD
                                  MEN  62-65  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 331        NUMBER OF CASES (N1) =  23        TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)       AVG X(0)     DIFF        CHI SQ.     STND DEV        DISCRIMINANT        STANDARD ERROR      T
                 (CASES)       (NON-CASES)                           OF VARIABLE     COEFFICIENT         OF COEFFICIENT
 1     FRW      100.82609      100.93958   -0.11349        0.00      13.44124        -0.00447592          0.01647297      -0.272
 2  SYSTOLIC    144.21739      138.28701    5.93038        1.20      25.09395         0.00983192          0.00882280       1.114
 3  CHOLSTRL    240.91304      233.64048    7.27256        0.73      39.34008         0.00455460          0.00548416       0.831
  INTERCEPT                                                                          -4.68456156
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    1.98


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           185.59568      78.41884    -17.86250                        FRW         99.83571     37.46786      91.58333
 SYSTOLIC         78.41884     621.79530     -3.30349                      SYSTOLIC      37.46786    759.44643     358.35833
 CHOLSTRL        -17.86250      -3.30349   1532.26295                      CHOLSTRL      91.58333    358.35833    1799.85000


 POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           180.66694      76.06533    -11.57251                        FRW          1.00000      0.22552      -0.02189
 SYSTOLIC         76.06533     629.70629     17.48167                      SYSTOLIC       0.22552      1.00000       0.01771
 CHOLSTRL        -11.57251      17.48167   1547.64152                      CHOLSTRL      -0.02189      0.01771       1.00000


                                       SUMMARY OF EXAMS 2,4,AND 6

             NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2   47      44     3     294.66385      81.33333     102.18182    91.66667    -10.5152   -0.04262    0.03651    -1.95649
 AT EXAM NO.4  142     136     6     183.47228     162.56667      98.40441   105.83333      7.4289    0.03189    0.03154   -10.07950
 AT EXAM NO.6  165     151    14     156.24053      78.55495     102.86093   100.64286     -2.2181   -0.01649    0.02371    -2.76876

 SYSTOLIC

 AT EXAM NO.2   47      44     3     906.37209     901.33333     143.00000   146.66667      3.6667    0.00913    0.02037    -1.95649
 AT EXAM NO.4  142     136     6     613.32674     968.16667     135.41912   153.83333     18.4142    0.02641    0.01696   -10.07950
 AT EXAM NO.6  165     151    14     547.83832     657.34066     139.49669   139.57143      0.0747    0.00256    0.01231    -2.76876

 CHOLSTRL

 AT EXAM NO.2   47      44     3    1073.43129     485.33333     216.68182   224.33333      7.6515    0.00943    0.01856    -1.95649
 AT EXAM NO.4  142     136     6    1694.87407    2980.96667     235.50000   233.83333     -1.6667   -0.00050    0.01007   -10.07950
 AT EXAM NO.6  165     151    14    1517.44468    1547.80769     236.90728   247.50000     10.5927    0.00706    0.00717    -2.76876


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.56
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.16
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.43

                                                                                           * DISCRIMINANT COEFFICIENT
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                                                     TABLE 23-A-1.8
                                              THIS ANALYSIS IS FOR TOTAL CHD
                                             MEN  66-69  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 149         NUMBER OF CASES (N1) =  11         TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)       AVG X(0)      DIFF         CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR        T
                 (CASES)     (NON-CASES)                                OF VARIABLE         COEFFICIENT           OF COEFFICIENT
1     FRW      99.00000      100.76510    -1.76510          0.14        15.22697          -0.01485422            0.02106049        -0.705
2  SYSTOLIC   152.72727      140.58389    12.14338          2.35        25.36799           0.02056921            0.01264296         1.627
3  CHOLSTRL   248.18182      237.77852    10.40329          0.79        37.56395           0.00682764            0.00832517         0.820
 INTERCEPT                                                                                -5.79794412
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.55


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           232.16140      93.06387     -5.24165                        FRW        226.94907     -25.57407    -154.18056
SYSTOLIC          93.06387     634.00524    -32.32412                     SYSTOLIC     -25.57407     799.18519    1002.94444
CHOLSTRL          -5.24165     -32.32412   1396.98612                     CHOLSTRL    -154.18056    1002.94444    1640.76389


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           231.86069      86.21938    -13.83428                        FRW          1.00000       0.22321      -0.02419
SYSTOLIC          86.21938     643.53485     27.40291                     SYSTOLIC       0.22321       1.00000       0.02876
CHOLSTRL         -13.83428      27.40291   1411.05022                     CHOLSTRL      -0.02419       0.02876       1.00000


                                                    SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B  INTERCEPT

      FRW

  AT EXAM NO.2      0        0      0        0.0            0.0            0.0          0.0           0.0       -0.04262     0.0          0.0
  AT EXAM NO.4     39       36      3     337.91429       89.33333      103.50000    110.66667       7.1667      0.02876     0.03474    -21.62410
  AT EXAM NO.6    121      113      8     199.11362      266.26786       99.89381     94.62500      -5.2688     -0.03424     0.02623      0.55458

  SYSTOLIC

  AT EXAM NO.2      0        0      0        0.0            0.0            0.0          0.0           0.0        0.00913     0.0          0.0
  AT EXAM NO.4     39       36      3     768.71429     1897.33333      146.50000    161.33333      14.8333     -0.00713     0.02235    -21.62410
  AT EXAM NO.6    121      113      8     591.90866      485.42857      138.69912    149.50000      10.8009      0.02162     0.01546      0.55458

  CHOLSTRL

  AT EXAM NO.2      0        0      0        0.0            0.0            0.0          0.0           0.0        0.00943     0.0          0.0
  AT EXAM NO.4     39       36      3    1171.51111     5692.00000      216.55556    307.00000      90.4444      0.06554     0.01651    -21.62410
  AT EXAM NO.6    121      113      8    1467.44706      483.26786      244.53982    226.12500     -18.4148     -0.01269     0.00976      0.55458


  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    16.69
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.84
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-A- 2.1
                                     THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                          MEN  38-41  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 710        NUMBER OF CASES (N1) =    5        TOTAL NUMBER BEFORE EXCLUSIONS =  835

                  AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV         DISCRIMINANT        STANDARD ERROR      T
                  (CASES)      (NON-CASES)                            OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1      FRW      104.80000     103.15070     1.64930        0.08       13.30309         -0.03727656          0.03597573       -1.036
2  SYSTOLIC     146.40000     127.42254    18.97746        6.81       16.20899          0.07374322          0.02919107        2.526
3  CHOLSTRL     290.80000     230.15352    60.64648        9.78       43.21579          0.03187066          0.01056152        3.018
  INTERCEPT                                                                           -19.47782883
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   16.24


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           177.09284     67.58757     101.21472                       FRW        134.33333     128.33333     364.50000
SYSTOLIC          67.58757    262.56549      67.92355                    SYSTOLIC      128.33333     321.33333    -334.00000
CHOLSTRL         101.21472     67.92355    1863.46515                    CHOLSTRL      364.50000    -334.00000    3331.00000


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW           176.97223     67.75893     101.95742                       FRW          1.00000       0.31424       0.17735
SYSTOLIC          67.75893    262.73126      66.78977                    SYSTOLIC        0.31424       1.00000       0.09535
CHOLSTRL         101.95742     66.78977    1867.60488                    CHOLSTRL        0.17735       0.09535       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    318     315     3     183.08307      134.33333     102.16825   105.33333     3.1651    -0.03506     0.04655    -19.21581
AT EXAM NO.4    310     309     1     177.17589        0.0         103.31068   109.00000     5.6893    -0.02078     0.07975    -24.91654
AT EXAM NO.6     87      86     1     154.66334        0.0         106.17442    99.00000    -7.1744    -0.08876     0.08441    -16.13235

SYSTOLIC

AT EXAM NO.2    318     315     3     236.83818      321.33333     126.94921   141.33333    14.3841     0.06066     0.03978    -19.21581
AT EXAM NO.4    310     309     1     290.68335        0.0         127.55016   158.00000    30.4498     0.10092     0.06221    -24.91654
AT EXAM NO.6     87      86     1     255.71929        0.0         128.69767   150.00000    21.3023     0.10487     0.06559    -16.13235

CHOLSTRL

AT EXAM NO.2    318     315     3    1860.95495     3331.00000     225.08254   296.00000    70.9175     0.03862     0.01383    -19.21581
AT EXAM NO.4    310     309     1    1856.10070        0.0         234.52751   292.00000    57.4725     0.02652     0.02359    -24.91654
AT EXAM NO.6     87      86     1    1899.42339        0.0         233.01163   274.00000    40.9884     0.02434     0.02315    -16.13235


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    10.40
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.46
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.82
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A- 2.2
                                 THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                      MEN  42-45  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 860        NUMBER OF CASES (N1) =  16        TOTAL NUMBER BEFORE EXCLUSIONS = 1054

                  AVG X(1)       AVG X(0)      DIFF          CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR        T
                   (CASES)     (NON-CASES)                                 OF VARIABLE       COEFFICIENT           OF COEFFICIENT
1      FRW       101.12500     103.41163     -2.28663          0.43       13.79965          -0.01745206            0.01911679        -0.913
2  SYSTOLIC      130.37500     130.02093      0.35407          0.01       17.28502           0.00112385            0.01522005         0.074
3  CHOLSTRL      251.81250     235.47442     16.33808          2.11       44.59403           0.00908210            0.00578492         1.570
 INTERCEPT                                                                                  -4.55866833
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.96


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          192.26065      63.71118     108.19828                           FRW        69.76923      -60.69231       -5.32692
SYSTOLIC         63.71118     299.39795     119.86451                        SYSTOLIC     -60.69231      257.50000      187.09615
CHOLSTRL        108.19828     119.86451    1994.76622                        CHOLSTRL      -5.32692      187.09615     1583.94231


POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
   FRW          190.43032      61.85228     106.50193                           FRW         1.00000        0.25931        0.17307
SYSTOLIC         61.85228     298.77189     120.86912                        SYSTOLIC      0.25931        1.00000        0.15681
CHOLSTRL        106.50193     120.86912    1988.62748                        CHOLSTRL      0.17307        0.15681        1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      276      272     4      187.94095       90.91667      102.50368    102.75000       0.2463    -0.00311     0.03784    -6.09583
AT EXAM NO.4      302      298     4      189.57273      124.91667      103.79195    108.25000       4.4581     0.01918     0.03863    -8.13917
AT EXAM NO.6      298      290     8      199.07363       37.07143      103.87241     96.75000      -7.1224    -0.04114     0.02727    -2.20088

SYSTOLIC

AT EXAM NO.2      276      272     4      321.69729      260.25000      132.51103    136.25000       3.7390     0.01075     0.02872    -6.09583
AT EXAM NO.4      302      298     4      267.68653      354.91667      127.84564    130.25000       2.4044     0.00148     0.03227    -8.13917
AT EXAM NO.6      298      290     8      311.07673      214.57143      129.92069    127.50000      -2.4207    -0.00157     0.02170    -2.20088

CHOLSTRL

AT EXAM NO.2      276      272     4     2451.42586     1745.66667      229.64338    238.50000       8.8566     0.00321     0.01043    -6.09583
AT EXAM NO.4      302      298     4     1696.42502     2196.25000      233.58725    247.25000      13.6628     0.00667     0.01255    -8.13917
AT EXAM NO.6      298      290     8     1873.14884     1252.21429      242.88276    260.75000      17.8672     0.01168     0.00846    -2.20088


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.27
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.71
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.94
                                                                                                                   * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A-2.3
                          THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                               MEN  46-49  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 830          NUMBER OF CASES (N1) =  12         TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                  AVG X(1)       AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR      T
                  (CASES)       (NON-CASES)                             OF VARIABLE        COEFFICIENT           OF COEFFICIENT
 1     FRW       108.50000      102.76265     5.73735         2.10       13.61405          0.02041715            0.02216987        0.921
 2  SYSTOLIC     138.25000      131.30723     6.94277         1.74       18.12367          0.01414146            0.01652184        0.856
 3  CHOLSTRL     259.00000      236.38313    22.61687         3.63       40.80055          0.01137776            0.00730245        1.558
   INTERCEPT                                                                             -11.11735087
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.59


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            186.68616      52.56592     107.75914                              FRW       61.86111      82.72222     -62.22222
 SYSTOLIC          52.56592     328.18757     110.70772                            SYSTOLIC    82.72222     354.18519    -229.88889
 CHOLSTRL         107.75914     110.70772    1673.17727                            CHOLSTRL   -62.22222    -229.88889     884.31111


 POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW            185.34235      52.89057     105.92920                              FRW        1.00000       0.21436       0.19071
 SYSTOLIC          52.89057     328.46745     107.04101                            SYSTOLIC     0.21436       1.00000       0.14476
 CHOLSTRL         105.92920     107.04101    1664.68470                            CHOLSTRL     0.19071       0.14476       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B   INTERCEPT

   FRW

 AT EXAM NO.2       286        283     3      178.85349       84.00000      101.75265    105.00000       3.2473     0.01543     0.04457     -9.06572
 AT EXAM NO.4       267        262     5      198.15947       46.00000      103.07252    106.00000       2.9275     0.00677     0.03378     -7.74315
 AT EXAM NO.6       289        285     4      183.91952       68.25000      103.48070    114.25000      10.7693     0.04066     0.03900    -16.38147

 SYSTOLIC

 AT EXAM NO.2       286        283     3      296.10057      152.33333      130.53710    131.66667       1.1296    -0.00317     0.03489     -9.06572
 AT EXAM NO.4       267        262     5      392.65754      646.00000      133.03817    138.00000       4.9618     0.00890     0.02336     -7.74315
 AT EXAM NO.6       289        285     4      300.79980       99.66667      130.48070    143.50000      13.0193     0.03265     0.02997    -16.38147

 CHOLSTRL

 AT EXAM NO.2       286        283     3     1282.93497      171.00000      229.75972    248.00000      18.2403     0.01398     0.01649     -9.06572
 AT EXAM NO.4       267        262     5     1774.82316     1438.70000      237.12595    252.80000      15.6740     0.00764     0.01113     -7.74315
 AT EXAM NO.6       289        285     4     1967.25740      620.66667      242.27719    275.00000      32.7228     0.01244     0.01172    -16.38147


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.89
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.90
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.01
                                                                                                      * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A-2.4
                                THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                     MEN  50-53  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 734        NUMBER OF CASES (N1) =  19        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                 AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR     T
                 (CASES)     (NON-CASES)                             OF VARIABLE    COEFFICIENT        OF COEFFICIENT
1     FRW       107.68421     103.08856    4.59565        2.37       12.83427       0.02427354         0.01868200      1.299
2  SYSTOLIC     138.00000     134.61989    3.38011        0.46       21.40306       0.00145434         0.01126073      0.129
3  CHOLSTRL     252.36842     236.28202   16.08640        2.96       40.21479       0.00899187         0.00585982      1.534
 INTERCEPT                                                                         -8.60735146
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     4.84


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            163.65921     65.08751      59.21065                   FRW       213.11071     40.98571     -91.19286
SYSTOLIC           65.08751    459.32407     127.23232                SYSTOLIC      40.98571    401.75357     140.00357
CHOLSTRL           59.21065    127.23232    1617.82430                CHOLSTRL     -91.19286    140.00357    1590.05714


POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
   FRW            164.71841     64.57127      55.98916                   FRW         1.00000      0.23507       0.10848
SYSTOLIC           64.57127    458.09097     127.50587                SYSTOLIC       0.23507      1.00000       0.14814
CHOLSTRL           55.98916    127.50587    1617.22956                CHOLSTRL       0.10848      0.14814       1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

 AT EXAM NO.2    248      243    5     148.00826       38.30000     103.66667    107.60000      3.9333     0.03087    0.03928    -8.07695
 AT EXAM NO.4    261      254    7     166.16739      213.14286     102.75984    105.85714      3.0973     0.01896    0.03038    -5.76000
 AT EXAM NO.6    244      237    7     177.01920      329.61905     102.84810    109.57143      6.7233     0.02744    0.02926   -11.10508

 SYSTOLIC

 AT EXAM NO.2    248      243    5     502.72176      213.80000     134.37037    132.60000     -1.7704    -0.01071    0.02138    -8.07695
 AT EXAM NO.4    261      254    7     428.71009      170.33333     133.22047    133.00000     -0.2205    -0.00360    0.01917    -5.76000
 AT EXAM NO.6    244      237    7     447.64228      758.47619     136.37553    146.85714     10.4816     0.01552    0.01860   -11.10508

 CHOLSTRL

 AT EXAM NO.2    248      243    5    1491.80179     1399.30000     228.81893    243.60000     14.7811     0.01000    0.01179    -8.07695
 AT EXAM NO.4    261      254    7    1187.46707      489.47619     236.31890    240.14286      3.8240     0.00281    0.01132    -5.76000
 AT EXAM NO.6    244      237    7    2208.40832     2817.80952     243.89451    270.85714     26.9626     0.00960    0.00835   -11.10508


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.41
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.48
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.12

                                                                                                     * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A- 2.5
                              THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                  MEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 646         NUMBER OF CASES (N1) =  24          TOTAL NUMBER BEFORE EXCLUSIONS =  885

                 AVG X(1)         AVG X(0)       DIFF         CHI SQ.        STND DEV         DISCRIMINANT         STANDARD ERROR        T
                 (CASES)        (NON-CASES)                                 OF VARIABLE       COEFFICIENT          OF COEFFICIENT
1      FRW      104.45833        103.55573      0.90261         0.11        12.81383         -0.00021307            0.01664171        -0.013
2  SYSTOLIC     143.12500        138.11920      5.00580         1.08        23.16189          0.00714967            0.00923026         0.775
3  CHOLSTRL     253.75000        234.32663     19.42337         5.94        38.33008          0.01277488            0.00546161         2.339
 INTERCEPT                                                                                   -7.39354563
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.57


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          164.17384      64.96177      39.84681                       FRW         164.81869     39.85478     -34.96344
SYSTOLIC         64.96177     538.59644      98.86668                    SYSTOLIC        39.85478    471.45814     -97.00255
CHOLSTRL         39.84681      98.86668    1475.72292                    CHOLSTRL       -34.96344    -97.00255    1269.31378


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW          164.19424      64.16772      37.48083                       FRW           1.00000      0.21620       0.07631
SYSTOLIC         64.16772     536.47309      92.67202                    SYSTOLIC         0.21620      1.00000       0.10438
CHOLSTRL         37.48083      92.67202    1469.19492                    CHOLSTRL         0.07631      0.10438       1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    221      214     7     164.92817      185.90476     102.96262    96.28571     -6.6769   -0.04916    0.03039    -4.83219
AT EXAM NO.4    222      214     8     158.29161      171.26786     104.78505   108.87500      4.0900    0.02387    0.02976    -8.22283
AT EXAM NO.6    227      218     9     169.20723      143.36111     102.93119   106.88889      3.9577    0.01425    0.02699    -8.74347

SYSTOLIC

AT EXAM NO.2    221      214     7     633.28323      602.47619     140.94393   139.14286     -1.8011   -0.00151    0.01548    -4.83219
AT EXAM NO.4    222      214     8     532.84860      165.26786     137.67757   142.12500      4.4474    0.00334    0.01653    -8.22283
AT EXAM NO.6    227      218     9     451.29692      641.11111     135.77982   147.11111     11.3313    0.02180    0.01645    -8.74347

CHOLSTRL

AT EXAM NO.2    221      214     7    1580.59602     1640.95238     225.20561   264.42857     39.2230    0.02664    0.00973    -4.83219
AT EXAM NO.4    222      214     8    1554.45062     1016.26786     236.00935   248.62500     12.6157    0.00792    0.00925    -8.22283
AT EXAM NO.6    227      218     9    1295.50647     1212.00000     241.62844   250.00000      8.3716    0.00398    0.00960    -8.74347


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     9.33
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.64
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.91
                                                                                  * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A- 2.6
                                THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                     MEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 537         NUMBER OF CASES (N1) =  26        TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)        AVG X(0)     DIFF        CHI SQ.       STND DEV         DISCRIMINANT         STANDARD ERROR      T
                 (CASES)       (NON-CASES)                            OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1      FRW     104.96154       102.62570    2.33584         0.90       12.24011          0.01101801           0.01653666       0.666
 2  SYSTOLIC    150.76923       139.02048   11.74875         5.53       24.86982          0.01775800           0.00820773       2.164
 3  CHOLSTRL    240.38462       233.76723    6.61739         0.68       40.03405          0.00267906           0.00505876       0.530
   INTERCEPT                                                                             -7.37968499
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    6.25


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            150.97103      40.64635       3.74674                        FRW       123.10040     -20.74308     -11.62372
 SYSTOLIC           40.64635     607.79904     141.80374                     SYSTOLIC     -20.74308     867.13518    -170.29328
 CHOLSTRL            3.74674     141.80374    1564.73117                     CHOLSTRL     -11.62372    -170.29328    2484.84901

 POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
    FRW            149.82018      38.11142       3.11206                        FRW         1.00000       0.12520       0.00635
 SYSTOLIC           38.11142     618.50771     128.91643                     SYSTOLIC       0.12520       1.00000       0.12948
 CHOLSTRL            3.11206     128.91643    1602.72526                     CHOLSTRL       0.00635       0.12948       1.00000

                                                   SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF      BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2    170      160    10      174.52197      110.93333      100.19375    104.60000      4.4062    0.01940    0.02513    -9.13793
 AT EXAM NO.4    197      192     5      139.32984      114.00000      103.75000    101.00000     -2.7500   -0.02487    0.03869    -4.25302
 AT EXAM NO.6    196      185    11      142.70400      137.69091      103.56216    107.09091      3.5287    0.02270    0.02625    -6.88069

 SYSTOLIC

 AT EXAM NO.2    170      160    10      621.88990     1383.11111      137.94375    156.00000     18.0563    0.02533    0.01290    -9.13793
 AT EXAM NO.4    197      192     5      599.83222      343.80000      138.48437    150.60000     12.1156    0.02172    0.01874    -4.25302
 AT EXAM NO.6    196      185    11      603.89260      612.09091      140.50811    146.09091      5.5828    0.00698    0.01294    -6.88069

 CHOLSTRL

 AT EXAM NO.2    170      160    10     1699.10059     2838.84444      230.99375    239.80000      8.8062    0.00278    0.00785    -9.13793
 AT EXAM NO.4    197      192     5     1583.63176      739.30000      230.95833    232.40000      1.4417    0.00005    0.01147    -4.25302
 AT EXAM NO.6    196      185    11     1428.99882     2864.47273      239.08108    244.54545      5.4644    0.00276    0.00813    -6.88069


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.34
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.62
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.39
                                                                                                            * DISCRIMINANT COEFFICIENT
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                                    TABLE 23-A- 2.7
                         THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                              MEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 343         NUMBER OF CASES (N1) =  11         TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)        AVG X(0)     DIFF        CHI SQ.       STND DEV        DISCRIMINANT       STANDARD ERROR       T
                 (CASES)      (NON-CASES)                              OF VARIABLE      COEFFICIENT        OF COEFFICIENT
 1     FRW       99.27273       100.98542   -1.71270        0.17       13.50173        -0.01339892          0.02332334       -0.574
 2  SYSTOLIC    144.36364       138.48980    5.87384        0.58       25.16966         0.01073222          0.01250927        0.858
 3  CHOLSTRL    248.27273       233.65889   14.61384        1.47       39.28519         0.00927104          0.00780050        1.189
   INTERCEPT                                                                           -5.85003972
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.36


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            184.30116     77.60957     -18.54806                     FRW        97.10938     111.06250     266.10937
 SYSTOLIC           77.60957    634.37664       3.05638                  SYSTOLIC     111.06250     596.75000     456.81250
 CHOLSTRL          -18.54806      3.05638    1534.04300                  CHOLSTRL     266.10937     456.81250    1937.85937


 POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
    FRW            182.29675     78.37860     -12.00421                     FRW         1.00000       0.23064      -0.02263
 SYSTOLIC           78.37860    633.51166      13.48755                  SYSTOLIC       0.23064       1.00000       0.01364
 CHOLSTRL          -12.00421     13.48755    1543.32614                  CHOLSTRL      -0.02263       0.01364       1.00000


                                          SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2      47       45     2     296.14343      50.00000     101.75556    96.00000     -5.7556   -0.01889     0.04365    -1.35848
 AT EXAM NO.4     142      141     1     184.75572       0.0          98.75887    93.00000     -5.7589   -0.03788     0.07567   -10.92757
 AT EXAM NO.6     165      157     8     152.34795     103.83929     102.76433   100.87500     -1.8893   -0.01967     0.03076    -5.34568

 SYSTOLIC

 AT EXAM NO.2      47       45     2     895.57273    1352.00000     143.46667   138.00000     -5.4667   -0.00381     0.02462    -1.35848
 AT EXAM NO.4     142      141     1     637.09676       0.0         136.05674   156.00000     19.9433    0.03430     0.04057   -10.92757
 AT EXAM NO.6     165      157     8     558.26482     488.85714     139.24841   144.50000      5.2516    0.01248     0.01600    -5.34568

 CHOLSTRL

 AT EXAM NO.2      47       45     2    1056.49192     800.00000     217.08889   219.00000      1.9111    0.00298     0.02241    -1.35848
 AT EXAM NO.4     142      141     1    1732.32290       0.0         235.18440   270.00000     34.8156    0.01822     0.02426   -10.92757
 AT EXAM NO.6     165      157     8    1490.79340    2100.41071     237.03822   252.87500     15.8368    0.01062     0.00931    -5.34568


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.26
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.53
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.06
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                   TABLE 23-A- 2.8
                     THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                          MEN  66-69  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 153        NUMBER OF CASES (N1) =    7        TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)       AVG X(0)      DIFF         CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)     (NON-CASES)                               OF VARIABLE       COEFFICIENT        OF COEFFICIENT
 1      FRW     102.28571      100.56863     1.71709          0.08      15.28957        -0.00391348          0.02589454       -0.151
 2  SYSTOLIC    160.85714      140.52941    20.32773          4.37      25.15969         0.03261650          0.01573546        2.073
 3  CHOLSTRL    259.42857      237.53595    21.89262          2.31      37.24951         0.01575276          0.01037684        1.518
   INTERCEPT                                                                           -11.51696372
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.70


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           234.32487      90.08648        6.20981                            FRW        217.04000    -122.96000    -353.20000
 SYSTOLIC         90.08648     629.88299      -33.19701                         SYSTOLIC    -122.96000     727.44000    1016.40000
 CHOLSTRL          6.20981     -33.19701     1378.04022                         CHOLSTRL    -353.20000    1016.40000    1674.00000

 POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
   FRW           233.77086      83.25807       -5.30974                            FRW          1.00000       0.21643      -0.00932
 SYSTOLIC         83.25807     633.00982        0.44392                         SYSTOLIC      0.21643       1.00000       0.00047
 CHOLSTRL         -5.30974       0.44392     1387.52611                         CHOLSTRL     -0.00932       0.00047       1.00000

                                                SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)         DIFF        BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2        0        0     0        0.0            0.0            0.0          0.0             0.0       -0.01889     0.0          0.0
 AT EXAM NO.4       39       37     2      331.50751      162.00000     103.78378    109.00000        5.2162      0.00695     0.04171    -32.78647
 AT EXAM NO.6      121      116     5      203.90247      230.80000      99.54310     99.60000        0.0569     -0.00837     0.03253     -3.56656

 SYSTOLIC

 AT EXAM NO.2        0        0     0        0.0            0.0            0.0          0.0             0.0       -0.00381     0.0          0.0
 AT EXAM NO.4       39       37     2      758.71922     1922.00000     145.94595    179.00000       33.0541      0.02299     0.02714    -32.78647
 AT EXAM NO.6      121      116     5      589.55165      428.80000     138.80172    153.60000       14.7983      0.02545     0.01929     -3.56656

 CHOLSTRL

 AT EXAM NO.2        0        0     0        0.0            0.0            0.0          0.0             0.0        0.00298     0.0          0.0
 AT EXAM NO.4       39       37     2     1160.83634     5618.00000     217.32432    338.00000      120.6757      0.09146     0.02054    -32.78647
 AT EXAM NO.6      121      116     5     1446.03448      688.00000     243.98276    228.00000      -15.9828     -0.01045     0.01213     -3.56656


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    22.45
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.60
                                                                                                              * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-3.2
                          THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                  MEN  42-45  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 872        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS = 1054

              AVG X(1)        AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR      T
              (CASES)       (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW    107.00000      103.35321     3.64679        0.28       13.79565         0.00702490          0.03796504       0.185
2  SYSTOLIC   134.50000      130.00688     4.49312        0.27       17.27399         0.00619207          0.03024869       0.205
3  CHOLSTRL   273.75000      235.59862    38.15138        2.92       44.51919         0.01850706          0.01150114       1.609
  INTERCEPT                                                                         -11.65554696
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.02


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          189.68925     61.49891     102.99211                       FRW        464.33333    213.66667    591.50000
SYSTOLIC         61.49891    297.01211     115.33931                    SYSTOLIC      213.66667    897.33333   1913.00000
CHOLSTRL        102.99211    115.33931    1977.03108                    CHOLSTRL      591.50000   1913.00000   4123.00000


POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
   FRW          190.31989     61.84831     104.11383                       FRW          1.00000      0.25953      0.16952
SYSTOLIC         61.84831    298.39057     119.46711                    SYSTOLIC        0.25953      1.00000      0.15535
CHOLSTRL        104.11383    119.46711    1981.95868                    CHOLSTRL        0.16952      0.15535      1.00000


                                       SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    276       276    0     186.19995       0.0          102.50725     0.0        -102.5072    -0.44005     0.00452     45.36459
AT EXAM NO.4    302       299    3     186.60944     464.33333      103.76589   112.33333       8.5674     0.02738     0.04454    -15.58296
AT EXAM NO.6    298       297    1     196.03162       0.0          103.72391    91.00000     -12.7239    -0.07979     0.07606     -3.03645

SYSTOLIC

AT EXAM NO.2    276       276    0     320.05755       0.0          132.56522     0.0        -132.5652    -0.33453     0.00343     45.36459
AT EXAM NO.4    302       299    3     263.94676     897.33333      127.80936   134.66667       6.8573     0.00734     0.03721    -15.58296
AT EXAM NO.6    298       297    1     308.89041       0.0          129.84175   134.00000       4.1582     0.03308     0.06067     -3.03645

CHOLSTRL

AT EXAM NO.2    276       276    0    2435.93680       0.0          229.77174     0.0        -229.7717    -0.05447     0.00125     45.36459
AT EXAM NO.4    302       299    3    1662.99836    4123.00000      233.27425   283.00000      49.7258     0.02735     0.01454    -15.58296
AT EXAM NO.6    298       297    1    1866.83743       0.0          243.35354   246.00000       2.6465     0.00306     0.02356     -3.03645


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.89
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    1.16
                                                                                                     * DISCRIMINANT COEFFICIENT
                                        TABLE 23-A-3.3
                          THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                               MEN  46-49  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 832        NUMBER OF CASES (N1) =  10        TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                   AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR      T
                   (CASES)      (NON-CASES)                           OF VARIABLE      COEFFICIENT       OF COEFFICIENT
 1     FRW        109.30000     102.76683    6.53317        2.28       13.60313         0.03343361         0.02429825       1.376
 2  SYSTOLIC      130.40000     131.41827   -1.01827        0.03       18.14800        -0.01154717         0.01807092      -0.639
 3  CHOLSTRL      253.80000     236.50000   17.30000        1.78       40.80381         0.00900060         0.00799616       1.126
   INTERCEPT                                                                           -8.66119449
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.81


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            185.26816     54.61861    109.40391                         FRW        158.62381    -64.12381   -143.27619
 SYSTOLIC          54.61861    328.91765    107.62194                       SYSTOLIC     -64.12381    380.55238    416.41905
 CHOLSTRL         109.40391    107.62194   1669.29972                       CHOLSTRL    -143.27619    416.41905   1149.92381

 POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW            185.04506     53.62435    107.28817                         FRW          1.00000      0.21722      0.19329
 SYSTOLIC          53.62435    329.35000    110.20756                       SYSTOLIC       0.21722      1.00000      0.14883
 CHOLSTRL         107.28817    110.20756   1664.95088                       CHOLSTRL       0.19329      0.14883      1.00000

                                           SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2      286      281     5     179.57694       85.30000      101.75801    103.40000      1.6420     0.00741     0.03464    -9.18389
 AT EXAM NO.4      267      264     3     192.69818      312.33333      102.96212    117.66667     14.7045     0.07912     0.04371   -11.79292
 AT EXAM NO.6      289      287     2     184.00748      144.50000      103.57491    111.50000      7.9251     0.04703     0.05493    -8.81261

 SYSTOLIC

 AT EXAM NO.2      286      281     5     291.37628      544.80000      130.60142    127.60000     -3.0014    -0.02079     0.02715    -9.18389
 AT EXAM NO.4      267      264     3     398.18107      233.33333      133.12879    133.33333      0.2045    -0.01148     0.03004   -11.79292
 AT EXAM NO.6      289      287     2     301.97814       18.00000      130.64460    133.00000      2.3554     0.00134     0.04214    -8.81261

 CHOLSTRL

 AT EXAM NO.2      286      281     5    1248.33508     1938.20000      229.34875    263.80000     34.4512     0.02871     0.01291    -9.18389
 AT EXAM NO.4      267      264     3    1786.54661        4.33333      237.30303    247.66667     10.3636     0.00048     0.01430   -11.79292
 AT EXAM NO.6      289      287     2    1973.61499      288.00000      242.76307    238.00000     -4.7631    -0.00578     0.01649    -8.81261


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.23
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.46
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.80

                                                                                                * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A-3.4
                                THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                     MEN  50-53  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 739        NUMBER OF CASES (N1) =  14        TOTAL NUMBER BEFORE EXCLUSIONS =  930

              AVG X(1)       AVG X(0)      DIFF         CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR      T
              (CASES)       (NON-CASES)                             OF VARIABLE      COEFFICIENT        OF COEFFICIENT
1     FRW     107.92857      103.11502    4.81355         1.95      12.78679         0.02191337          0.02175279      1.007
2  SYSTOLIC   142.57143      134.55616    8.01527         1.94      21.35188         0.01229561          0.01309249      0.939
3  CHOLSTRL   252.28571      236.39242   15.89329         2.14      40.25901         0.00808393          0.00679600      1.190
 INTERCEPT                                                                          -9.95752358
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    4.57


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           162.50151      59.59914      56.18184                       FRW       230.44444      301.30303       55.60606
SYSTOLIC          59.59914     449.97119     135.35182                    SYSTOLIC     301.30303      852.78788     -440.24242
CHOLSTRL          56.18184     135.35182    1624.88487                    CHOLSTRL      55.60606     -440.24242     1346.65152


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           163.50201      63.15837      56.17336                       FRW         1.00000        0.23133        0.10912
SYSTOLIC          63.15837     455.90290     126.87587                    SYSTOLIC       0.23133        1.00000        0.14760
CHOLSTRL          56.17336     126.87587    1620.78772                    CHOLSTRL       0.10912        0.14760        1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     248      246    2     144.82577       32.00000     103.61382   120.00000     16.3862    0.08447    0.06188   -24.03974
AT EXAM NO.4     261      252    9     163.10003      303.52778     102.89286   101.44444     -1.4484   -0.01382    0.02689    -5.49659
AT EXAM NO.6     244      241    3     179.91954       37.33333     102.83817   119.33333     16.4952    0.08718    0.04460   -16.44183

SYSTOLIC

AT EXAM NO.2     248      246    2     490.26748      392.00000     134.07724   166.00000     31.9228    0.04976    0.03373   -24.03974
AT EXAM NO.4     261      252    9     412.28551      741.25000     133.11508   136.00000      2.8849    0.00632    0.01697    -5.49659
AT EXAM NO.6     244      241    3     448.24834     1529.33333     136.55187   146.66667     10.1148    0.00983    0.02814   -16.44183

CHOLSTRL

AT EXAM NO.2     248      246    2    1495.27022      420.50000     228.94309   250.50000     21.5569    0.00967    0.01851   -24.03974
AT EXAM NO.4     261      252    9    1161.23827     1315.00000     235.97222   249.00000     13.0278    0.01124    0.01004    -5.49659
AT EXAM NO.6     244      241    3    2242.09689     1936.33333     244.43568   263.33333     18.8976    0.00386    0.01261   -16.44183


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     6.31
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.60
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.77
                                                                                                   * DISCRIMINANT COEFFICIENT
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TABLE 23-A-3.5
THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
MEN 54-57 EXAMS 2,4, AND 6 POOLED

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NUMBER OF NON-CASES (NO) = 654        NUMBER OF CASES (N1) =  16        TOTAL NUMBER BEFORE EXCLUSIONS =  885

               AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT      STANDARD ERROR      T
               (CASES)      (NON-CASES)                          OF VARIABLE     COEFFICIENT       OF COEFFICIENT
1     FRW      106.68750     103.51223     3.17527       0.96      12.79789        0.01482881        0.02029208       0.731
2  SYSTOLIC    143.93750     138.16055     5.77695       0.97      23.13302        0.00777407        0.01125928       0.690
3  CHOLSTRL    246.50000     234.74159    11.75841       1.46      38.49014        0.00712087        0.00661633       1.076
  INTERCEPT                                                                       -8.07897874
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.74


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           164.00738     64.49817      33.96856                       FRW         152.69414      99.85165      18.46520
SYSTOLIC          64.49817    539.61606      93.58659                    SYSTOLIC        99.85165     310.81136     -23.70696
CHOLSTRL          33.96856     93.58659    1472.39364                    CHOLSTRL        18.46520     -23.70696    1937.03297


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW           163.78588     65.19033      33.66503                       FRW           1.00000       0.22020       0.06834
SYSTOLIC          65.19033    535.13645      91.29018                    SYSTOLIC         0.22020       1.00000       0.10253
CHOLSTRL          33.66503     91.29018    1481.49050                    CHOLSTRL         0.06834       0.10253       1.00000


                                            SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*   STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    221      214     7      166.51540      179.47619     102.77103   102.14286    -0.6282   -0.01479    0.03023    -8.01355
AT EXAM NO.4    222      219     3      159.29764      142.33333     104.97717   101.66667    -3.3105   -0.01448    0.04798    -0.26050
AT EXAM NO.6    227      221     6      166.24607      124.70000     102.77828   114.50000    11.7217    0.07316    0.03316   -13.16231

SYSTOLIC

AT EXAM NO.2    221      214     7      627.64512      476.61905     140.34579   157.42857    17.0828    0.02792    0.01559    -8.01355
AT EXAM NO.4    222      219     3      525.07955       76.00000     137.94521   130.00000    -7.9452   -0.01227    0.02669    -0.26050
AT EXAM NO.6    227      221     6      468.79227      205.76667     136.25792   135.16667    -1.0913   -0.01648    0.01996   -13.16231

CHOLSTRL

AT EXAM NO.2    221      214     7     1578.27697     3230.57143     225.99533   240.28571    14.2904    0.00837    0.00958    -8.01355
AT EXAM NO.4    222      219     3     1554.55008      196.33333     236.56164   229.33333    -7.2283   -0.00382    0.01490    -0.26050
AT EXAM NO.6    227      221     6     1288.46977     1081.06667     241.40724   262.33333    20.9261    0.01526    0.01171   -13.16231


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =      4.11
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =      0.51
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =      6.98
                                                                                               * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A- 3.6
                          THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                 MEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 550        NUMBER OF CASES (N1) =  13        TOTAL NUMBER BEFORE EXCLUSIONS =  782

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR      T
                 (CASES)     (NON-CASES)                             OF VARIABLE      COEFFICIENT       OF COEFFICIENT
 1     FRW     110.07692      102.56000     7.51692        4.82      12.20203        0.04982824         0.02318315      2.149
 2  SYSTOLIC   144.46154      139.44727     5.01427        0.51      24.96857        0.00251682         0.01142627      0.220
 3  CHOLSTRL   252.92308      233.62727    19.29580        2.97      39.91850        0.01190000         0.00709052      1.678
  INTERCEPT                                                                        -12.29487788
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     7.83


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           150.41451      37.41008     -3.17238                    FRW         65.47500      83.01667     181.96667
 SYSTOLIC         37.41008     623.74377    127.06429                  SYSTOLIC      83.01667     606.23333     259.36667
 CHOLSTRL         -3.17238     127.06429   1561.35723                  CHOLSTRL     181.96667     259.36667    3350.95000


 POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
   FRW           148.88956      38.22887      0.15148                    FRW          1.00000       0.12548       0.00031
 SYSTOLIC         38.22887     623.42940    129.43956                  SYSTOLIC       0.12548       1.00000       0.12987
 CHOLSTRL          0.15148     129.43956   1593.48637                  CHOLSTRL       0.00031       0.12987       1.00000


                                           SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF      BETA*   STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2    170      164     6     171.75950      81.06667      100.11585   109.66667      9.5508    0.05563    0.03227   -14.24372
 AT EXAM NO.4    197      193     4     139.69905       5.58333      103.51295   111.75000      8.2370    0.05655    0.04329   -13.48406
 AT EXAM NO.6    196      193     3     143.00896     116.33333      103.68394   108.66667      4.9827    0.04152    0.04920    -8.37748

 SYSTOLIC

 AT EXAM NO.2    170      164     6     669.62304     941.46667      138.66463   148.33333      9.6687    0.00679    0.01628   -14.24372
 AT EXAM NO.4    197      193     4     600.14222     321.00000      138.56995   149.50000     10.9301    0.01489    0.02085   -13.48406
 AT EXAM NO.6    196      193     3     608.39573     196.00000      140.98964   130.00000    -10.9896   -0.02468    0.02431    -8.37748

 CHOLSTRL

 AT EXAM NO.2    170      164     6    1655.79620    4286.96667      230.46341   260.16667     29.7033    0.01682    0.01009   -14.24372
 AT EXAM NO.4    197      193     4    1576.69943     768.66667      230.78756   241.00000     10.2124    0.00584    0.01280   -13.48406
 AT EXAM NO.6    196      193     3    1465.84030    4884.33333      239.15544   254.33333     15.1779    0.01276    0.01527    -8.37748


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     6.35
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.70
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.98

                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                      TABLE 23-A- 3.7
                                       THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                              MEN   62-65   EXAMS 2,4, AND 6 POOLED


    NUMBER OF NON-CASES (NO) = 346          NUMBER OF CASES (N1) =    8          TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)      AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT         STANDARD ERROR        T
                 (CASES)      (NON-CASES)                               OF VARIABLE       COEFFICIENT          OF COEFFICIENT
 1      FRW      104.00000     100.86127     3.13873         0.43       13.43465          0.01918480           0.02733061        0.702
 2  SYSTOLIC     139.00000     138.66474     0.33526         0.00       25.10625         -0.00197269           0.01461852       -0.135
 3  CHOLSTRL     249.25000     233.76301    15.48699         1.22       39.21941          0.01029650           0.00912504        1.128
   INTERCEPT                                                                             -7.94490591
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.71


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                           VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             182.41876     75.45371    -18.08711                                FRW          70.22222      80.66667      45.88889
 SYSTOLIC            75.45371    626.04945      5.82640                             SYSTOLIC        80.66667     874.66667     398.00000
 CHOLSTRL           -18.08711      5.82640   1546.27166                             CHOLSTRL        45.88889     398.00000    1074.55556

 POOLED VARIANCE-COVARIANCE MATRIX                                                  POOLED CORRELATION MATRIX
    FRW             180.48988     75.54333    -16.98724                                FRW           1.00000       0.22397      -0.03224
 SYSTOLIC            75.54333    630.32368     12.56864                             SYSTOLIC         0.22397       1.00000       0.01276
 CHOLSTRL           -16.98724     12.56864   1538.16193                             CHOLSTRL        -0.03224       0.01276       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*    STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2        47       47      0      285.73358        0.0          101.51064      0.0          -101.5106    -0.26637     0.00879     38.37024
 AT EXAM NO.4       142      140      2      181.53217      128.00000       98.48571    115.00000       16.5143     0.09353     0.05421    -24.61373
 AT EXAM NO.6       165      159      6      153.11974       58.66667      102.76101    100.33333       -2.4277    -0.01068     0.03526     -1.15200

 SYSTOLIC

 AT EXAM NO.2        47       47      0      887.27012        0.0          143.23404      0.0          -143.2340    -0.11573     0.00497     38.37024
 AT EXAM NO.4       142      140      2      634.04748      578.00000      135.90000    157.00000       21.1000     0.02331     0.02878    -24.61373
 AT EXAM NO.6       165      159      6      542.96163      934.00000      139.74843    133.00000       -6.7484    -0.01063     0.01834     -1.15200

 CHOLSTRL

 AT EXAM NO.2        47       47      0     1028.10083        0.0          217.17021      0.0          -217.1702    -0.18798     0.00452     38.37024
 AT EXAM NO.4       142      140      2     1718.14281     1568.00000      234.85000    276.00000       41.1500     0.02728     0.01733    -24.61373
 AT EXAM NO.6       165      159      6     1545.92843      975.86667      237.71069    240.33333        2.6226     0.00171     0.01064     -1.15200


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 3968.71
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    6.23
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    0.59
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-4.4
                             THIS ANALYSIS IS FOR SUDDEN CHD DEATH
                              MEN  50-53  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 748        NUMBER OF CASES (N1) =    5        TOTAL NUMBER BEFORE EXCLUSIONS =  930

              AVG X(1)      AVG X(0)      DIFF       CHI SQ.     STND DEV      DISCRIMINANT      STANDARD ERROR      T
              (CASES)     (NON-CASES)                           OF VARIABLE     COEFFICIENT      OF COEFFICIENT
1      FRW   108.20000     103.17112     5.02888        0.76     12.82960       0.01899925        0.03613097        0.526
2  SYSTOLIC  138.60000     134.67914     3.92086        0.17     21.41415      -0.00394238        0.02173618       -0.181
3  CHOLSTRL  291.60000     236.32086    55.27914        9.95     39.06099       0.03580488        0.01166459        3.070
  INTERCEPT                                                                   -15.92829892
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   10.23


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            164.51339    65.03076     59.65593                        FRW       196.33333    -17.83333    280.33333
SYSTOLIC           65.03076   459.71017    126.37821                     SYSTOLIC     -17.83333     32.33333   -161.33333
CHOLSTRL           59.65593   126.37821   1527.16886                     CHOLSTRL     280.33333   -161.33333   1001.33333

POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW            164.59858    64.80891     60.24676                        FRW         1.00000      0.23590      0.12022
SYSTOLIC           64.80891   458.56592    125.60790                     SYSTOLIC       0.23590      1.00000      0.15017
CHOLSTRL           60.24676   125.60790   1525.76100                     CHOLSTRL       0.12022      0.15017      1.00000

                                            SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2    248      247    1      144.85817        0.0        103.66397   124.00000    20.3360    0.13043    0.08741   -27.00565
 AT EXAM NO.4    261      258    3      167.04552      196.33333    102.79070   107.33333     4.5426    0.03170    0.04606    -4.80559
 AT EXAM NO.6    244      243    1      181.80441        0.0        103.07407    95.00000    -8.0741   -0.12394    0.07668   -45.75035

 SYSTOLIC

 AT EXAM NO.2    248      247    1      496.81258        0.0        134.26316   152.00000    17.7368    0.01025    0.04741   -27.00565
 AT EXAM NO.4    261      258    3      425.73559       32.33333    133.23256   131.66667    -1.5659   -0.00588    0.02905    -4.80559
 AT EXAM NO.6    244      243    1      458.07492        0.0        136.63786   146.00000     9.3621   -0.02700    0.04855   -45.75035

 CHOLSTRL

 AT EXAM NO.2    248      247    1     1489.39350        0.0        228.97166   265.00000    36.0283    0.02098    0.02614   -27.00565
 AT EXAM NO.4    261      258    3     1171.80588     1001.33333    236.53876   226.33333   -10.2054   -0.00951    0.01716    -4.80559
 AT EXAM NO.6    244      243    1     1942.95820        0.0        243.55967   514.00000   270.4403    0.14876    0.02348   -45.75035


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.58
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.74
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    40.81
                                                                                                * DISCRIMINANT COEFFICIENT
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                                    TABLE 23-A-4.5
                          THIS ANALYSIS IS FOR SUDDEN CHD DEATH
                            MEN  54-57  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 660        NUMBER OF CASES (N1) =  10        TOTAL NUMBER BEFORE EXCLUSIONS =  885

                AVG X(1)      AVG X(0)       DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR      T
                 (CASES)    (NON-CASES)                              OF VARIABLE       COEFFICIENT         OF COEFFICIENT
 1     FRW     117.70000     103.37424     14.32576        12.49      12.71991         0.07560808          0.02562428       2.951
 2  SYSTOLIC   160.20000     137.96667     22.23333         9.18      23.02544         0.03270683          0.01419784       2.304
 3  CHOLSTRL   245.80000     234.85909     10.94091         0.80      38.49513         0.00373443          0.00832895       0.448
   INTERCEPT                                                                         -18.32069035
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    18.24


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             160.51131     61.48294      32.02066                      FRW        282.39286    -53.85714      81.17857
 SYSTOLIC            61.48294    526.81083      83.73927                   SYSTOLIC     -53.85714    845.52381     686.71429
 CHOLSTRL            32.02066     83.73927    1484.59002                   CHOLSTRL      81.17857    686.71429    1227.05952

 POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
    FRW             161.79621     60.26701      32.53889                      FRW          1.00000      0.20577       0.06645
 SYSTOLIC            60.26701    530.17076      90.09593                   SYSTOLIC       0.20577      1.00000       0.10165
 CHOLSTRL            32.53889     90.09593    1481.87509                   CHOLSTRL       0.06645      0.10165       1.00000

                                     SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO   N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2     221      218    3     156.26037      813.00000    102.50000   121.00000    18.5000   0.10523    0.04626   -22.31248
 AT EXAM NO.4     222      218    4     156.03458       76.25000    104.65138   120.25000    15.5986   0.07695    0.04195   -21.64472
 AT EXAM NO.6     227      224    3     169.00416       61.00000    102.98214   111.00000     8.0179   0.03972    0.04616   -10.10441

 SYSTOLIC

 AT EXAM NO.2     221      218    3     634.71991       17.33333    140.66972   156.66667    15.9969   0.01631    0.02345   -22.31248
 AT EXAM NO.4     222      218    4     489.28373     1558. 3667    137.26606   169.00000    31.7339   0.05112    0.02340   -21.64472
 AT EXAM NO.6     227      224    3     458.32255      604.00000    136.01786   152.00000    15.9821   0.03296    0.02808   -10.10441

 CHOLSTRL

 AT EXAM NO.2     221      218    3    1623.48311      903.00000    226.02752   257.00000    30.9725   0.01591    0.01452   -22.31248
 AT EXAM NO.4     222      218    4    1543.13178     1321.58333    236.23853   248.75000    12.5115   0.00480    0.01294   -21.64472
 AT EXAM NO.6     227      224    3    1292.46731     1409. 3333    242.11161   230.66667   -11.4449  -0.01356    0.01642   -10.10441


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.99
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    11.32
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.96
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A-4.6
                                    THIS ANALYSIS IS FOR SUDDEN CHD DEATH
                                     MEN  58-61  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 556          NUMBER OF CASES (N1) =    7          TOTAL NUMBER BEFORE EXCLUSIONS =  782

                AVG X(1)        AVG X(0)       DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)      (NON-CASES)                               OF VARIABLE       COEFFICIENT        OF COEFFICIENT
1     FRW       111.28571       102.62590     8.65982        3.47       12.22699          0.04859591          0.03133796        1.551
2  SYSTOLIC     165.57143       139.23561    26.33582        7.79       24.81135          0.03765442          0.01556744        2.419
3  CHOLSTRL     256.14286       233.79496    22.34789        2.16       39.95604          0.01100724          0.00959618        1.147
  INTERCEPT                                                                              -18.00757020
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    11.47


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           148.55422      38.42530        1.46778                          FRW       280.16667   -212.00000       -5.66667
SYSTOLIC          38.42530     611.74146      120.98454                       SYSTOLIC    -212.00000   1149.50000      677.75000
CHOLSTRL           1.46778     120.98454     1602.45393                       CHOLSTRL      -5.66667    677.75000      771.33333


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW           149.49937      36.62691        1.41655                          FRW         1.00000      0.12073        0.00290
SYSTOLIC          36.62691     615.60328      124.98286                       SYSTOLIC      0.12073      1.00000        0.12607
CHOLSTRL           1.41655     124.98286     1596.48538                       CHOLSTRL      0.00290      0.12607        1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     170      169    1     171.76571          0.0        100.40237   109.00000      8.5976    0.05145     0.07729   -15.37902
AT EXAM NO.4     197      194    3     136.52070      183.00000      103.50515   115.00000     11.4948    0.07311     0.04991   -26.30525
AT EXAM NO.6     196      193    3     140.34035      377.33333      103.68912   108.33333      4.6442    0.02262     0.04914   -12.07221

SYSTOLIC

AT EXAM NO.2     170      169    1     680.88081          0.0        138.98817   142.00000      3.0118   -0.00443     0.03926   -15.37902
AT EXAM NO.4     197      194    3     569.62128     1252.00000      138.21649   176.00000     37.7835    0.06077     0.02436   -26.30525
AT EXAM NO.6     196      193    3     593.58409     1047.00000      140.47668   163.00000     22.5233    0.03614     0.02438   -12.07221

CHOLSTRL

AT EXAM NO.2     170      169    1    1756.08805          0.0        231.28994   269.00000     37.7101    0.02193     0.02421   -15.37902
AT EXAM NO.4     197      194    3    1554.69678     1196.33333      230.51031   262.33333     31.8230    0.01867     0.01479   -26.30525
AT EXAM NO.6     196      193    3    1516.02995      346.33333      239.29016   245.66667      6.3765    0.00011     0.01524   -12.07221


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.25
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    11.02
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.72
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                             TABLE 23-A-5.4
                                 THIS ANALYSIS IS FOR NON-SUDDEN CHD DEATH
                                   MEN  50-53  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 749        NUMBER OF CASES (N1) =    4        TOTAL NUMBER BEFORE EXCLUSIONS =  930

               AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT      STANDARD ERROR       T
               (CASES)     (NON-CASES)                             OF VARIABLE      COEFFICIENT      OF COEFFICIENT
1     FRW     103.75000     103.20160    0.54840         0.01       12.84852        -0.00889494        0.04028548      -0.221
2  SYSTOLIC   149.75000     134.62483   15.12517         2.00       21.35854         0.03600505        0.02436632       1.478
3  CHOLSTRL   232.00000     236.71295   -4.71295         0.05       40.27513        -0.00550166        0.01263534      -0.435
  INTERCEPT                                                                         -8.14214834
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.25


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW            164.78375     62.98680      57.94421                       FRW        277.25000     780.00000     144.00000
SYSTOLIC          62.98680    450.89195     132.06787                     SYSTOLIC     780.00000    2431.25000    -142.50000
CHOLSTRL          57.94421    132.06787    1622.83976                     CHOLSTRL     144.00000    -142.50000    1341.00000

POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW            165.08446     64.90395      58.17431                       FRW          1.00000       0.23651       0.11242
SYSTOLIC          64.90395    456.18703     131.33373                     SYSTOLIC       0.23651       1.00000       0.15267
CHOLSTRL          58.17431    131.33373    1622.08618                     CHOLSTRL       0.11242       0.15267       1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     248      248    0     145.93925        0.0         103.74597     0.0        -103.7460   -0.59802    0.00551    50.18165
AT EXAM NO.4     261      259    2     167.18287     242.00000      102.82625  105.00000       2.1737   -0.00593    0.05625   -10.29780
AT EXAM NO.6     244      242    2     181.52905     312.50000      103.04545  102.50000      -0.5455   -0.00403    0.05408    -4.84978

SYSTOLIC

AT EXAM NO.2     248      248    0     496.06972        0.0         134.33468     0.0        -134.3347   -0.14410    0.00300    50.18165
AT EXAM NO.4     261      259    2     403.66266    3612.50000      132.98842  162.50000      29.5116    0.07700    0.03582   -10.29780
AT EXAM NO.6     244      242    2     455.15025    1250.00000      136.67355  137.00000       0.3264    0.00049    0.03438    -4.84978

CHOLSTRL

AT EXAM NO.2     248      248    0    1488.59761        0.0         229.11694     0.0        -229.1169   -0.13090    0.00165    50.18165
AT EXAM NO.4     261      259    2    1169.54701     882.00000      236.57915  216.00000     -20.5792   -0.02354    0.02102   -10.29780
AT EXAM NO.6     244      242    2    2245.69180    1800.00000      244.64050  248.00000       3.3595    0.00163    0.01541    -4.84978


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    5.45
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    0.02

                                                                                                     * DISCRIMINANT COEFFICIENT
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                                                TABLE 23-A-5.5
                                     THIS ANALYSIS IS FOR NON-SUDDEN CHD DEATH
                                        MEN  54-57  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 665        NUMBER OF CASES (N1) =    5        TOTAL NUMBER BEFORE EXCLUSIONS =  885

               AVG X(1)       AVG X(0)     DIFF         CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
               (CASES)       (NON-CASES)                            OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW      91.00000      103.68271  -12.68271         4.88       12.78594         -0.09851838          0.03608257       -2.730
2  SYSTOLIC   154.00000      138.18045   15.81955         2.32       23.13606          0.03774373          0.01998012        1.889
3  CHOLSTRL   269.20000      234.76541   34.43459         3.99       38.42190          0.02363794          0.01176425        2.009
 INTERCEPT                                                                            -6.77077891
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   13.20


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          164.14470     66.42774      40.01013                               FRW         16.88889       0.66667    -135.11111
SYSTOLIC         66.42774    535.10475      93.56760                            SYSTOLIC        0.66667     573.33333    -660.66667
CHOLSTRL         40.01013     93.56760    1473.34728                            CHOLSTRL     -135.11111    -660.66667    2115.05556


POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
   FRW          163.48039     66.13108      39.22011                               FRW          1.00000       0.22355       0.07984
SYSTOLIC         66.13108    535.27721      90.16504                            SYSTOLIC        0.22355       1.00000       0.10143
CHOLSTRL         39.22011     90.16504    1476.24221                            CHOLSTRL        0.07984       0.10143       1.00000


                                                    SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

    FRW

AT EXAM NO.2    221     219     2      164.38385        2.00000      102.92237    84.00000      -18.9224   -0.13309    0.05657    -3.09148
AT EXAM NO.4    222     222     0      158.57007        0.0          104.93243     0.0         -104.9324   -0.57897    0.00554    51.78892
AT EXAM NO.6    227     224     3      169.43554       24.33333      103.18750    95.66667       -7.5208   -0.07209    0.04633    -9.85120

SYSTOLIC

AT EXAM NO.2    221     219     2      627.78007     1568.00000      140.82192   148.00000        7.1781    0.01942    0.02865    -3.09148
AT EXAM NO.4    222     222     0      519.48490        0.0          137.83784     0.0         -137.8378   -0.14699    0.00308    51.78892
AT EXAM NO.6    227     224     3      459.98711       76.00000      135.93750   158.00000       22.0625    0.05425    0.02822    -9.85120

CHOLSTRL

AT EXAM NO.2    221     219     2     1611.09958     1624.50000      226.03653   271.50000       45.4635    0.03228    0.01782    -3.09148
AT EXAM NO.4    222     222     0     1535.92403        0.0          236.46396     0.0         -236.4640   -0.14112    0.00172    51.78892
AT EXAM NO.6    227     224     3     1276.66808     2360.33333      241.61607   267.66667       26.0506    0.01858    0.01644    -9.85120


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     8.18
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     6.58
                                                                                                  * DISCRIMINANT COEFFICIENT
                                        TABLE 23-A-5.6
                              THIS ANALYSIS IS FOR NON-SUDDEN CHD DEATH
                                 MEN   58-61   EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 556        NUMBER OF CASES (N1) =    7        TOTAL NUMBER BEFORE EXCLUSIONS =  782

                   AVG X(1)      AVG X(0)      DIFF         CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR        T
                   (CASES)      (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
 1      FRW       112.14286     102.61511     9.52775        4.21       12.21179         0.05441163          0.03137745         1.734
 2  SYSTOLIC      165.71429     139.23381    26.48047        7.87       24.82489         0.03814032          0.01556291         2.451
 3  CHOLSTRL      251.14286     233.85791    17.28494        1.29       39.96398         0.00772443          0.00959651         0.805
   INTERCEPT                                                                           -17.90610995
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    11.49


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             148.48195      36.99186       0.94055                         FRW        220.55000       0.40000     114.00000
 SYSTOLIC            36.99186     602.89122     114.80263                      SYSTOLIC        0.40000    2096.53333    1470.13333
 CHOLSTRL             0.94055     114.80263    1596.93358                      CHOLSTRL      114.00000    1470.13333    1617.73333

 POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
    FRW             149.12772      36.66397       1.95363                         FRW          1.00000       0.12094       0.00400
 SYSTOLIC            36.66397     616.27511     126.94717                      SYSTOLIC        0.12094       1.00000       0.12796
 CHOLSTRL             1.95363     126.94717    1597.11996                      CHOLSTRL        0.00400       0.12796       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

      FRW

  AT EXAM NO.2     170      170     0      171.18416        0.0         100.45294       0.0       -100.4529    -0.54499     0.00590     45.48285
  AT EXAM NO.4     197      194     3      133.89886    400.00000       103.48969   116.00000      12.5103     0.08397     0.04999    -23.73729
  AT EXAM NO.6     196      192     4      143.13045    100.91667       103.64583   109.25000       5.6042     0.02828     0.04269    -13.05711

  SYSTOLIC

  AT EXAM NO.2     170      170     0      676.90529        0.0         139.00588       0.0       -139.0059    -0.13758     0.00300     45.48285
  AT EXAM NO.4     197      194     3      577.68794   1509.33333       138.38144   165.33333      26.9519     0.04049     0.02416    -23.73729
  AT EXAM NO.6     196      192     4      562.86952   2488.00000       140.29687   166.00000      25.7031     0.04184     0.02126    -13.05711

  CHOLSTRL

  AT EXAM NO.2     170      170     0     1754.06199        0.0         231.51176       0.0       -231.5118    -0.11821     0.00185     45.48285
  AT EXAM NO.4     197      194     3     1537.07708   3169.33333       230.55670   259.33333      28.7766     0.01716     0.01479    -23.73729
  AT EXAM NO.6     196      192     4     1518.38700    583.33333       239.27083   245.00000       5.7292    -0.00096     0.01323    -13.05711


  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     7.79
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.81
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A- 5.7
                                 THIS ANALYSIS IS FOR NON-SUDDEN CHD DEATH
                                    MEN   62-65   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 349          NUMBER OF CASES (N1) =    5          TOTAL NUMBER BEFORE EXCLUSIONS =  571

                  AVG X(1)        AVG X(0)       DIFF          CHI SQ.        STND DEV          DISCRIMINANT         STANDARD ERROR         T
                   (CASES)       (NON-CASES)                                 OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1      FRW        98.60000      100.96562     -2.36562          0.15        13.48596          -0.01888327           0.03433121         -0.550
 2  SYSTOLIC      147.20000      138.55014      8.64986          0.58        25.14334           0.01570553           0.01841131          0.853
 3  CHOLSTRL      254.20000      233.82521     20.37479          1.33        39.26395           0.01291473           0.01147677          1.125
  INTERCEPT                                                                                    -7.75669381
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.19


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             182.67928     79.30131     -15.26637                             FRW          88.66667     -71.33333     351.66667
 SYSTOLIC           79.30131    634.51278      18.43219                           SYSTOLIC      -71.33333     364.00000    -378.00000
 CHOLSTRL          -15.26637     18.43219    1537.71278                           CHOLSTRL      351.66667    -378.00000    1996.66667


 POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
   FRW             181.87115     78.00646     -12.11222                             FRW           1.00000       0.23005      -0.02287
 SYSTOLIC           78.00646    632.18746      15.02446                           SYSTOLIC       0.23005       1.00000       0.01522
 CHOLSTRL          -12.11222     15.02446    1541.65794                           CHOLSTRL      -0.02287       0.01522       1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                     NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B   INTERCEPT

   FRW

 AT EXAM NO.2          47       46      1      292.07729         0.0         101.52174    101.00000      -0.5217    -0.01569     0.06097    -10.96902
 AT EXAM NO.4         142      142      0      183.67895         0.0          98.71831      0.0         -98.7183    -0.52721     0.00632     48.89604
 AT EXAM NO.6         165      161      4      151.03012      88.66667       102.78882     98.00000      -4.7888    -0.03919     0.04301     -4.93513

 SYSTOLIC

 AT EXAM NO.2          47       46      1      897.19614         0.0         142.78261    164.00000      21.2174     0.02491     0.03463    -10.96902
 AT EXAM NO.4         142      142      0      635.37928         0.0         136.19718      0.0        -136.1972    -0.15034     0.00338     48.89604
 AT EXAM NO.6         165      161      4      559.86949     364.00000       139.41615    143.00000       3.5839     0.01225     0.02232     -4.93513

 CHOLSTRL

 AT EXAM NO.2          47       46      1     1040.12754         0.0         216.69565    239.00000      22.3043     0.02154     0.03151    -10.96902
 AT EXAM NO.4         142      142      0     1728.57302         0.0         235.42958      0.0        -235.4296    -0.14944     0.00202     48.89604
 AT EXAM NO.6         165      161      4     1509.46304    1996.66667       237.30435    258.00000      20.6957     0.01391     0.01299     -4.93513


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.00
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 = *******
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.03

                                                                                                                      * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A-6.3
                            THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                 MEN  46-49  EXAMS 2,4, AND 6 POOLED


 NUMBER OF NON-CASES (NO) = 864        NUMBER OF CASES (N1) =   8       TOTAL NUMBER BEFORE EXCLUSIONS = 1010

               AVG X(1)      AVG X(0)      DIFF        CHI SQ.     STND DEV       DISCRIMINANT        STANDARD ERROR      T
               (CASES)      (NON-CASES)                           OF VARIABLE     COEFFICIENT         OF COEFFICIENT
1    FRW      104.62500     102.85185     1.77315        0.14     13.55709       -0.00503906          0.02720203       -0.185
2  SYSTOLIC   145.75000     131.48032    14.26968        4.82     18.29741        0.04194091          0.01999312        2.098
3  CHOLSTRL   248.75000     237.18866    11.56134        0.64     40.83967        0.00447709          0.00892017        0.502
  INTERCEPT                                                                     -11.06082893
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.08


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                            VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           184.23307     53.29416     109.21407                  FRW      108.28333    -12.30000    -238.30000
SYSTOLIC          53.29416    331.65351     105.03017               SYSTOLIC    -12.30000    875.80000    1051.80000
CHOLSTRL         109.21407    105.03017    1666.18823               CHOLSTRL   -238.30000   1051.80000    1959.00000


POOLED VARIANCE-COVARIANCE MATRIX                                   POOLED CORRELATION MATRIX
   FRW           183.79456     52.91544     107.20764                  FRW        1.00000      0.21332       0.19363
SYSTOLIC          52.91544    334.79523     110.49651               SYSTOLIC      0.21332      1.00000       0.14787
CHOLSTRL         107.20764    110.49651    1667.87883               CHOLSTRL      0.19363      0.14787       1.00000


                                     SUMMARY OF EXAMS 2,4,AND 6

               NO + N1   NO   N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     290     287   3     178.83541      152.33333    101.75610   100.33333     -1.4228   -0.01836    0.04447    -8.95889
AT EXAM NO.4     278     277   1     191.24185        0.0        103.10830   105.00000      1.8917   -0.01208    0.07617   -13.42511
AT EXAM NO.6     304     300   4     182.92641       78.91667    103.66333   107.75000      4.0867    0.00648    0.03899   -12.95888

SYSTOLIC

AT EXAM NO.2     290     287   3     302.79360     1300.00000    130.86760   140.00000      9.1324    0.02947    0.03401    -8.95889
AT EXAM NO.4     278     277   1     391.60569        0.0        133.10108   152.00000     18.8989    0.04669    0.05222   -13.42511
AT EXAM NO.6     304     300   4     303.91816      593.00000    130.57000   148.50000     17.9300    0.05744    0.02955   -12.95888

CHOLSTRL

AT EXAM NO.2     290     287   3    1250.04851     3475.00000    229.97909   244.00000     14.0209    0.00954    0.01654    -8.95889
AT EXAM NO.4     278     277   1    1794.64098        0.0        238.01805   260.00000     21.9819    0.00965    0.02461   -13.42511
AT EXAM NO.6     304     300   4    1945.66314      948.33333    243.32000   249.50000      6.1800   -0.00024    0.01177   -12.95888


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.27
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.07
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.16

                                                                                              * DISCRIMINANT COEFFICIENT
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                                               TABLE 23-A- 6.4
                                THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                       MEN  50-53  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 773         NUMBER OF CASES (N1) =  13        TOTAL NUMBER BEFORE EXCLUSIONS =  930

              AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR        T
              (CASES)      (NON-CASES)                            OF VARIABLE       COEFFICIENT       OF COEFFICIENT
1     FRW     107.15385     103.16041    3.99343         1.26      12.74052          0.00863589          0.02268917         0.381
2  SYSTOLIC   154.76923     134.43855   20.33068        11.65      21.29698          0.04571220          0.01366876         3.344
3  CHOLSTRL   233.15385     237.50970   -4.35586         0.15      40.67067         -0.00684869          0.00699108        -0.980
 INTERCEPT                                                                          -9.99190201
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   12.70


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                               VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          160.86107    61.41319      56.04699                       FRW       274.72000    381.72000     278.74000
SYSTOLIC         61.41319   442.62963     138.58218                    SYSTOLIC     381.72000   1295.32000     358.74000
CHOLSTRL         56.04699   138.58218    1658.77535                    CHOLSTRL     278.74000    358.74000    1294.38000

POOLED VARIANCE-COVARIANCE MATRIX                                      POOLED CORRELATION MATRIX
   FRW          162.32080    65.51969      58.90203                       FRW         1.00000      0.24147       0.11367
SYSTOLIC         65.51969   453.56156     141.40471                    SYSTOLIC       0.24147      1.00000       0.16325
CHOLSTRL         58.90203   141.40471    1654.10361                    CHOLSTRL       0.11367      0.16325       1.00000


                                          SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2     253     248    5      144.37637      422.80000     103.76210   110.60000     6.8379     0.03296     0.03935    -7.28333
 AT EXAM NO.4     272     268    4      162.25759      294.00000     102.83582   101.00000    -1.8358    -0.03230     0.04030   -10.60626
 AT EXAM NO.6     261     257    4      175.30970       58.00000     102.91829   109.00000     6.0817     0.02044     0.03919   -13.07172

 SYSTOLIC

 AT EXAM NO.2     253     248    5      456.81775     2214.80000     134.00806   149.60000    15.5919     0.03109     0.02192    -7.28333
 AT EXAM NO.4     272     268    4      412.93995      745.00000     133.01119   158.50000    25.4888     0.06507     0.02531   -10.60626
 AT EXAM NO.6     261     257    4      459.90573      619.66667     136.34241   157.50000    21.1576     0.04238     0.02440   -13.07172

 CHOLSTRL

 AT EXAM NO.2     253     248    5     1508.25441     1717.70000     230.88710   204.20000   -26.6871    -0.02097     0.01174    -7.28333
 AT EXAM NO.4     272     268    4     1261.96359     1018.00000     236.89925   242.00000     5.1007     0.00087     0.01433   -10.60626
 AT EXAM NO.6     261     257    4     2217.86679     1006.33333     244.53696   260.50000    15.9630     0.00205     0.01108   -13.07172


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    6.22
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    6.79
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    4.15
                                                                                            * DISCRIMINANT COEFFICIENT
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TABLE 23-A- 6.5
THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
MEN 54-57 EXAMS 2,4, AND 6 POOLED

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   NUMBER OF NON-CASES (NO) = 707        NUMBER OF CASES (N1) =    7        TOTAL NUMBER BEFORE EXCLUSIONS =  885

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT      STANDARD ERROR       T
                 (CASES)    (NON-CASES)                            OF VARIABLE      COEFFICIENT      OF COEFFICIENT
 1      FRW    102.57143     103.55728   -0.98586        0.04       12.86872        -0.03191625        0.03034588      -1.052
 2  SYSTOLIC   169.85714     137.87836   31.97878       14.13       22.39946         0.06890960        0.01745523       3.948
 3  CHOLSTRL   228.85714     235.87836   -7.02122        0.23       38.88954        -0.00715456        0.00980896      -0.729
   INTERCEPT                                                                       -10.26616922
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   15.84


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                           VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            165.57814     63.45123     30.22665                 FRW       170.12500    458.12500    282.50000
 SYSTOLIC           63.45123    489.67871     66.35536              SYSTOLIC     458.12500   2623.81250    675.12500
 CHOLSTRL           30.22665     66.35536   1517.28377              CHOLSTRL     282.50000    675.12500    652.25000

 POOLED VARIANCE-COVARIANCE MATRIX                                  POOLED CORRELATION MATRIX
    FRW            165.60383     65.68102     31.65193                 FRW         1.00000      0.22786      0.06325
 SYSTOLIC           65.68102    501.73596     69.79474              SYSTOLIC       0.22786      1.00000      0.08012
 CHOLSTRL           31.65193     69.79474   1512.39657              CHOLSTRL       0.06325      0.08012      1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO   N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF      BETA*   STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2    238     234   4      170.05644      166.66667     102.61966   101.00000     -1.6197   -0.03488    0.03943   -12.78507
 AT EXAM NO.4    228     227   1      152.98160        0.0         104.97357   105.00000      0.0264    0.01382    0.08409    -3.98039
 AT EXAM NO.6    248     246   2      172.93886      180.50000     103.14228   104.50000      1.3577   -0.01783    0.05589   -10.97458

 SYSTOLIC

 AT EXAM NO.2    238     234   4      543.17853     3496.91667     140.23932   182.75000     42.5107    0.07662    0.02127   -12.78507
 AT EXAM NO.4    228     227   1      497.85607        0.0         137.80617   125.00000    -12.8062   -0.02844    0.04690    -3.98039
 AT EXAM NO.6    248     246   2      431.25608        4.50000     135.69919   166.50000     30.8008    0.07784    0.03552   -10.97458

 CHOLSTRL

 AT EXAM NO.2    238     234   4     1673.64332      269.66667     226.97863   226.50000     -0.4786   -0.00047    0.01243   -12.78507
 AT EXAM NO.4    228     227   1     1559.85696        0.0         237.24229   240.00000      2.7577    0.00353    0.02554    -3.98039
 AT EXAM NO.6    248     246   2     1329.31105     1800.00000     243.08537   228.00000    -15.0854   -0.01592    0.01966   -10.97458


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    13.03
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.37
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.18
                                                                                                    * DISCRIMINANT COEFFICIENT
                                              TABLE 23-A- 6.6
                                THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                      MEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 612        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS =  782

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV          DISCRIMINANT       STANDARD ERROR      T
                 (CASES)      (NON-CASES)                            OF VARIABLE        COEFFICIENT        OF COEFFICIENT
1     FRW      102.25000      102.35294   -0.10294        0.00       12.48975          -0.01066033         0.02880149       -0.370
2  SYSTOLIC    159.75000      139.11765   20.63235        5.52       24.67600           0.03321523         0.01466155        2.265
3  CHOLSTRL    252.00000      234.56699   17.43301        1.39       41.48273           0.00805040         0.00862866        0.933
  INTERCEPT                                                                         -10.16873156
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.53



VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW              156.76069     45.62971       7.19854                    FRW          78.16667     -12.00000       72.50000
SYSTOLIC            45.62971    600.44266     113.59540                  SYSTOLIC      -12.00000    1467.83333     -225.33333
CHOLSTRL             7.19854    113.59540    1723.75438                  CHOLSTRL       72.50000    -225.33333     1422.66667


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
  FRW              155.99392     45.06746       7.83563                    FRW           1.00000       0.14623        0.01512
SYSTOLIC            45.06746    608.90500     110.28878                  SYSTOLIC        0.14623       1.00000        0.10774
CHOLSTRL             7.83563    110.28878    1720.81694                  CHOLSTRL        0.01512       0.10774        1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     191     191     0      186.56743        0.0         99.96859      0.0         -99.9686   -0.48334    0.00535     41.10026
AT EXAM NO.4     216     212     4      145.38485      153.66667    103.43868   104.50000       1.0613    0.00087    0.04225     -7.21453
AT EXAM NO.6     213     209     4      141.07329        2.66667    103.43062   100.00000      -3.4306   -0.03842    0.04330    -12.35218

SYSTOLIC

AT EXAM NO.2     191     191     0      722.93745        0.0        140.06806      0.0        -140.0681   -0.13190    0.00274     41.10026
AT EXAM NO.4     216     212     4      534.35760      422.66667    137.68868   151.00000      13.3113    0.02512    0.02210     -7.21453
AT EXAM NO.6     213     209     4      555.58658     2513.00000    139.69856   168.50000      28.8014    0.04782    0.02136    -12.35218

CHOLSTRL

AT EXAM NO.2     191     191     0     1811.82982        0.0        231.95812      0.0        -231.9581   -0.11171    0.00171     41.10026
AT EXAM NO.4     216     212     4     1871.01860     2387.33333    232.51887   230.00000      -2.5189   -0.00204    0.01166     -7.21453
AT EXAM NO.6     213     209     4     1493.91263      458.00000    239.02871   274.00000      34.9713    0.01924    0.01327    -12.35218


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.34
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.56
                                                                                              * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A- 6.7
                          THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                 MEN  62-65  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 409        NUMBER OF CASES (N1) =   9        TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)      AVG X(0)      DIFF        CHI SQ.     STND DEV       DISCRIMINANT      STANDARD ERROR       T
                 (CASES)     (NON-CASES)                            OF VARIABLE     COEFFICIENT       OF COEFFICIENT
1      FRW      104.33333     100.71883     3.61451        0.63      13.55307        0.00251307         0.02544989      0.099
2   SYSTOLIC    165.66667     139.52078    26.14588        9.15      25.64679        0.03915663         0.01344465      2.912
3   CHOLSTRL    264.11111     234.07579    30.03532        4.64      41.36188        0.01726114         0.00815042      2.118
  INTERCEPT                                                                        -14.34883851
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   13.66


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           183.71596      72.82917      20.76485                     FRW        181.93571     120.44286    -283.02857
SYSTOLIC          72.82917     651.28001      16.33650                  SYSTOLIC      120.44286    1033.45714    -245.91429
CHOLSTRL          20.76485      16.33650    1674.00876                  CHOLSTRL     -283.02857    -245.91429    3844.97143

POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
   FRW           183.68579      73.63619      15.61580                     FRW          1.00000       0.21185       0.02786
SYSTOLIC          73.63619     657.75759      11.89157                  SYSTOLIC        0.21185       1.00000       0.01121
CHOLSTRL          15.61580      11.89157    1710.80474                  CHOLSTRL        0.02786       0.01121       1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF        BETA*     STND ERR B   INTERCEPT

   FRW

AT EXAM NO.2     53       53     0      265.21553        0.0         102.52830      0.0        -102.5283    -0.31207     0.00858     36.18868
AT EXAM NO.4    178      174     4      183.68494     214.91667       98.83908   101.25000       2.4109    -0.00229     0.03775    -13.14752
AT EXAM NO.6    187      182     5      160.33137     157.20000      101.98901   106.80000       4.8110     0.00632     0.03735    -15.46177

SYSTOLIC

AT EXAM NO.2     53       53     0      930.70755        0.0         145.15094      0.0        -145.1509    -0.10229     0.00458     36.18868
AT EXAM NO.4    178      174     4      682.55013    1129.00000      137.93103   174.50000      36.5690     0.05297     0.01950    -13.14752
AT EXAM NO.6    187      182     5      541.11447     961.80000      139.40110   158.60000      19.1989     0.03488     0.02010    -15.46177

CHOLSTRL

AT EXAM NO.2     53       53     0     1257.02395        0.0         218.50943      0.0        -218.5094    -0.15320     0.00385     36.18868
AT EXAM NO.4    178      174     4     1796.33157    1188.66667      235.74138   247.00000      11.2586     0.00551     0.01198    -13.14752
AT EXAM NO.6    187      182     5     1676.88923    5837.20000      237.01648   277.80000      40.7835     0.02335     0.01083    -15.46177


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 4256.85
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    7.79
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    8.04

                                                                                                        * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-A- 6.8
                                   THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                           MEN   66-69   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NJN-CASES (NO) = 191          NUMBER OF CASES (N1) =    5          TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)        AVG X(0)       DIFF          CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR        T
                 (CASES)       (NON-CASES)                                OF VARIABLE         COEFFICIENT          OF COEFFICIENT
 1     FRW      104.00000       100.23037     3.76963          0.33        14.56360           0.02214691            0.03191360          0.694
 2  SYSTOLIC    136.00000       142.51309    -6.51309          0.32        25.55922          -0.01172220            0.01819467         -0.644
 3  CHOLSTRL    205.20000       237.10995   -31.90995          3.21        39.32612          -0.02034199            0.01152727         -1.765
   INTERCEPT                                                                                  0.22675501
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     3.94



 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                           VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            207.55403       89.27299       -3.91885                              FRW       498.38889    -309.00000     102.66667
 SYSTOLIC           89.27299      645.47396       18.75068                          SYSTOLIC     -309.00000    1144.66667    1004.00000
 CHOLSTRL           -3.91885       18.75068     1530.16092                          CHOLSTRL      102.66667    1004.00000    2578.66667


 POOLED VARIANCE-COVARIANCE MATRIX                                                  POOLED CORRELATION MATRIX
    FRW            212.09832       83.04997       -2.25345                              FRW         1.00000       0.22311      -0.00393
 SYSTOLIC           83.04997      653.27384       34.14520                          SYSTOLIC      0.22311       1.00000       0.03397
 CHOLSTRL           -2.25345       34.14520     1546.54382                          CHOLSTRL     -0.00393       0.03397       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2       0        0      0         0.0            0.0            0.0         0.0           0.0      -0.31207     0.0          0.0
 AT EXAM NO.4      46       44      2       280.84725        4.50000      103.88636    80.50000    -23.3864    -0.08712     0.04598      9.37769
 AT EXAM NO.6     150      147      3       185.96766      745.33333       99.13605   119.66667     20.5306     0.11161     0.04281    -10.16781

 SYSTOLIC

 AT EXAM NO.2       0        0      0         0.0            0.0            0.0         0.0           0.0      -0.10229     0.0          0.0
 AT EXAM NO.4      46       44      2       767.59831     1922.00000      147.27273   127.00000    -20.2727    -0.00322     0.02787      9.37769
 AT EXAM NO.6     150      147      3       609.50582      756.00000      141.08844   142.00000      0.9116    -0.01250     0.02411    -10.16781

 CHOLSTRL

 AT EXAM NO.2       0        0      0         0.0            0.0            0.0         0.0           0.0      -0.15320     0.0          0.0
 AT EXAM NO.4      46       44      2      2086.38901      288.00000      222.72727   186.00000    -36.7273    -0.01955     0.01669      9.37769
 AT EXAM NO.6     150      147      3      1366.34032     3724.00000      241.41497   218.00000    -23.4150    -0.01813     0.01563    -10.16781


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.40
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.95
                                                                                                               * DISCRIMINANT COEFFICIENT
                                                   TABLE 23-A-7.4
                                     THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                          MEN  50-53  EXAMS 2,4, AND 6 POOLED

 NUMBER OF NON-CASES (NO) = 778        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                AVG X(1)     AVG X(0)      DIFF       CHI SQ.     STND DEV       DISCRIMINANT      STANDARD ERROR      T
                (CASES)    (NON-CASES)                           OF VARIABLE      COEFFICIENT      OF COEFFICIENT
1     FRW     111.12500    103.14524    7.97976        3.11     12.72712        0.02684338        0.02882619      0.931
2  SYSTOLIC   164.25000    134.47172   29.77828       15.59     21.22066        0.06519084        0.01741104      3.744
3  CHOLSTRL   233.00000    237.48329   -4.48329        0.10     40.71900       -0.00919132        0.00887238     -1.036
 INTERCEPT                                                                    -15.02793102
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   17.39


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                           VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          161.04313     60.88432      56.32286                  FRW       307.13333    540.40000     397.93333
SYSTOLIC         60.88432    441.45920     139.98753               SYSTOLIC     540.40000   1823.20000     282.80000
CHOLSTRL         56.32286    139.98753    1660.64142               CHOLSTRL     397.93333    282.80000    1254.33333

POOLED VARIANCE-COVARIANCE MATRIX                                  POOLED CORRELATION MATRIX
   FRW          161.97961     63.95814      58.51267                  FRW         1.00000      0.23681       0.11291
SYSTOLIC         63.95814    450.31652     140.90300               SYSTOLIC       0.23681      1.00000       0.16307
CHOLSTRL         58.51267    140.90300    1658.03688               CHOLSTRL       0.11291      0.16307       1.00000

                                               SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2   253      249     4     143.88528      507.66667    103.74297   113.50000     9.7570    0.04395    0.04393   -11.86863
 AT EXAM NO.4   272      271     1     162.79606        0.0        102.74908   119.00000    16.2509    0.05698    0.08013   -36.24804
 AT EXAM NO.6   261      258     3     175.75851        6.33333    102.98450   105.33333     2.3488   -0.00457    0.04514   -12.36196

 SYSTOLIC

 AT EXAM NO.2   253      249     4     455.76380     2588.00000    133.95181   157.00000    23.0482    0.04337    0.02452   -11.86863
 AT EXAM NO.4   272      271     1     412.45502        0.0        133.16236   194.00000    60.8376    0.13969    0.05044   -36.24804
 AT EXAM NO.6   261      258     3     458.12687      676.00000    136.34884   164.00000    27.6512    0.06282    0.02823   -12.36196

 CHOLSTRL

 AT EXAM NO.2   253      249     4    1520.68140     1583.00000    230.61446   214.50000   -16.1145   -0.01503    0.01305   -11.86863
 AT EXAM NO.4   272      271     1    1257.98929        0.0        236.89668   258.00000    21.1033    0.00597    0.02850   -36.24804
 AT EXAM NO.6   261      258     3    2218.71987      761.33333    244.72868   249.33333     4.6047   -0.00425    0.01277   -12.36196


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    6.58
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    9.52
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    5.06
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-7.5
                            THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                               MEN  54-57  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 709       NUMBER OF CASES (N1) =   5       TOTAL NUMBER BEFORE EXCLUSIONS =  885

              AVG X(1)     AVG X(0)     DIFF        CHI SQ.     STND DEV       DISCRIMINANT     STANDARD ERROR      T
              (CASES)    (NON-CASES)                           OF VARIABLE     COEFFICIENT      OF COEFFICIENT
1     FRW    103.00000    103.55148   -0.55148       0.01      12.86043       -0.01529228       0.03584803      -0.427
2  SYSTOLIC  153.20000    138.08604   15.11396       2.22      22.62497        0.03192766       0.02039812       1.565
3  CHOLSTRL  232.40000    235.83357   -3.43357       0.04      38.89188       -0.00339318       0.01158669      -0.293
 INTERCEPT                                                                    -7.23073753
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.50


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          165.24343     63.77132     30.77288                        FRW       217.33333    593.33333    207.66667
SYSTOLIC         63.77132    508.33839     66.54434                     SYSTOLIC     593.33333   1765.33333    648.66667
CHOLSTRL         30.77288     66.54434   1516.17127                     CHOLSTRL     207.66667    648.66667    244.33333


POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
   FRW          165.39058     65.26726     31.27258                        FRW         1.00000      0.22431      0.06252
SYSTOLIC         65.26726    511.88922     68.18875                     SYSTOLIC       0.22431      1.00000      0.07749
CHOLSTRL         31.27258     68.18875   1512.57851                     CHOLSTRL       0.06252      0.07749      1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     238      235    3      169.45288      217.33333     102.64255    98.66667     -3.9759   -0.03351    0.04541    -5.20777
AT EXAM NO.4     228      227    1      152.98160        0.0        104.97357   105.00000      0.0264    0.01382    0.08409    -3.98039
AT EXAM NO.6     248      247    1      172.50426        0.0        103.10931   114.00000     10.8907    0.03817    0.07890   -20.23550

SYSTOLIC

AT EXAM NO.2     238      235    3      596.89987     1765.33333     140.72766   158.66667     17.9390    0.03279    0.02396    -5.20777
AT EXAM NO.4     228      227    1      497.85607        0.0        137.80617   125.00000    -12.8062   -0.02844    0.04690    -3.98039
AT EXAM NO.6     248      247    1      433.72707        0.0        135.82996   165.00000     29.1700    0.06022    0.04980   -20.23550

CHOLSTRL

AT EXAM NO.2     238      235    3     1667.45117      244.33333     227.04255   221.33333     -5.7092   -0.00307    0.01433    -5.20777
AT EXAM NO.4     228      227    1     1559.85696        0.0        237.24229   240.00000      2.7577    0.00353    0.02554    -3.98039
AT EXAM NO.6     248      247    1     1332.13686        0.0        242.90283   258.00000     15.0972    0.00609    0.02771   -20.23550


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.19
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.37
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.26

                                                                                         * DISCRIMINANT COEFFICIENT
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                                            TABLE 23-A-7.6
                                THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                    MEN  58-61  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 613        NUMBER OF CASES (N1) =    7         TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)        (NON-CASES)                             OF VARIABLE       COEFFICIENT        OF COEFFICIENT
 1     FRW      102.85714       102.34584     0.51130         0.01       12.49132        -0.00624706          0.03075708       -0.203
 2  SYSTOLIC    159.14286       139.15824    19.98462         4.53       24.69447         0.03162621          0.01564710        2.021
 3  CHOLSTRL    253.28571       234.58075    18.70496         1.41       41.45792         0.00888401          0.00922226        0.963
  INTERCEPT                                                                             -10.71566875
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    5.50


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW              156.55182      45.33959       7.15155                      FRW         92.73333     -16.80000       70.46667
SYSTOLIC            45.33959     600.42184     113.56663                    SYSTOLIC     -16.80000    1756.00000     -307.60000
CHOLSTRL             7.15155     113.56663    1720.95428                    CHOLSTRL      70.46667    -307.60000     1450.93333


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
  FRW              156.03297      44.83439       7.66631                      FRW          1.00000       0.14535        0.01480
SYSTOLIC            44.83439     609.81679     110.14252                    SYSTOLIC      0.14535       1.00000        0.10758
CHOLSTRL             7.66631     110.14252    1718.75899                    CHOLSTRL      0.01480       0.10758        1.00000


                                            SUMMARY OF EXAMS 2,4,AND 6

              NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2    191     191    0     186.56743        0.0         99.96859      0.0          -99.9686    -0.48334     0.00535    41.10026
AT EXAM NO.4    216     212    4     145.38485      153.66667    103.43868    104.50000        1.0613     0.00087     0.04225    -7.21453
AT EXAM NO.6    213     210    3     140.53873        1.33333    103.40476    100.66667       -2.7381    -0.03284     0.04984   -15.21662

SYSTOLIC

AT EXAM NO.2    191     191    0     722.93745        0.0        140.06806      0.0         -140.0681    -0.13190     0.00274    41.10026
AT EXAM NO.4    216     212    4     534.35760      422.66667    137.68868    151.00000       13.3113     0.02512     0.02210    -7.21453
AT EXAM NO.6    213     210    3     555.74046     3756.00000    139.81429    170.00000       30.1857     0.04795     0.02454   -15.21662

CHOLSTRL

AT EXAM NO.2    191     191    0    1811.82982        0.0        231.95812      0.0         -231.9581    -0.11171     0.00171    41.10026
AT EXAM NO.4    216     212    4    1871.01860     2387.33333    232.51887    230.00000       -2.5189    -0.00204     0.01166    -7.21453
AT EXAM NO.6    213     210    3    1486.83983       46.33333    239.04762    284.33333       45.2857     0.02633     0.01531   -15.21662


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    1.34
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    8.07
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                                     TABLE 23-A-7.7
                                         THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                             MEN  62-65  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 412        NUMBER OF CASES (N1) =   6        TOTAL NUMBER BEFORE EXCLUSIONS =  571

                  AVG X(1)       AVG X(0)     DIFF        CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR       T
                  (CASES)      (NON-CASES)                             OF VARIABLE        COEFFICIENT           OF COEFFICIENT
 1      FRW      101.33333      100.78883   0.54450         0.01        13.56168          -0.02253680            0.03107810        -0.725
 2  SYSTOLIC     177.50000      139.53883  37.96117        13.06        25.54672           0.06057299            0.01649171         3.673
 3  CHOLSTRL     247.16667      234.54126  12.62540         0.55        41.57579           0.00690151            0.00989644         0.697
   INTERCEPT                                                                             -13.21592164
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   14.04


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             184.50686     74.70624      19.66130                             FRW       123.83333     138.00000   -108.33333
 SYSTOLIC           74.70624    649.80638      10.04959                           SYSTOLIC    138.00000     941.83333    866.16667
 CHOLSTRL           19.66130     10.04959    1721.37190                           CHOLSTRL   -108.33333     866.16667   2462.16667


 POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
   FRW             183.91922     75.31926      18.42164                             FRW         1.00000       0.21740      0.03267
 SYSTOLIC           75.31926    652.63472      18.34128                           SYSTOLIC      0.21740       1.00000      0.01727
 CHOLSTRL           18.42164     18.34128    1728.54666                           CHOLSTRL      0.03267       0.01727      1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                        NO + N1    NO     N1    VARIANCE X(0)   VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF        BETA*     STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2     53       53     0       265.21553         0.0          102.52830       0.0        -102.5283    -0.31207     0.00858     36.18868
 AT EXAM NO.4    178      175     3       183.77517       230.33333       98.92000     97.33333       -1.5867    -0.02931     0.04352    -14.77103
 AT EXAM NO.6    187      184     3       162.26895        17.33333      102.06522    105.33333        3.2681    -0.01053     0.04795    -12.56445

 SYSTOLIC

 AT EXAM NO.2     53       53     0       930.70755         0.0          145.15094       0.0        -145.1509    -0.10229     0.00458     36.18868
 AT EXAM NO.4    178      175     3       679.20677      1225.33333      137.98857    183.33333       45.3448     0.06838     0.02256    -14.77103
 AT EXAM NO.6    187      184     3       542.03299       658.33333      139.39674    171.66667       32.2699     0.06097     0.02598    -12.56445

 CHOLSTRL

 AT EXAM NO.2     53       53     0      1257.02395         0.0          218.50943       0.0        -218.5094    -0.15320     0.00385     36.18868
 AT EXAM NO.4    178      175     3      1787.60939      1260.33333      235.64571    256.33333       20.6876     0.01055     0.01381    -14.77103
 AT EXAM NO.6    187      184     3      1790.33785      3664.00000      238.10870    238.00000       -0.1087     0.00024     0.01374    -12.56445


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 4256.85
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    9.93
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    5.71
                                                                                                      * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-A- 8.2
                                      THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                          MEN  42-45  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 891       NUMBER OF CASES (N1) =   5       TOTAL NUMBER BEFORE EXCLUSIONS = 1054

                AVG X(1)     AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR       T
                (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT       OF COEFFICIENT
1     FRW      101.20000    103.49495   -2.29495        0.14        13.82125        -0.04209497        0.03383488       -1.244
2  SYSTOLIC    152.20C00    130.08754   22.11246        8.19        17.22495         0.07941237        0.02715428        2.924
3  CHOLSTRL    259.80000    236.16611   23.63389        1.41        44.44542         0.00909740        0.01030406        0.883
 INTERCEPT                                                                         -14.33915607
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   10.28


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW          191.08769      60.88009      99.02569                            FRW       164.00000     158.00000    -220.00000
SYSTOLIC        60.88009     296.10317     123.84295                          SYSTOLIC    158.00000     561.25000     -63.50000
CHOLSTRL        99.02569     123.84295    1979.05859                          CHOLSTRL   -220.00000     -63.50000     349.00000


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
  FRW          191.02681      61.09833      98.30878                            FRW         1.00000       0.25664       0.16004
SYSTOLIC        61.09833     296.69900     123.42195                          SYSTOLIC      0.25664       1.00000       0.16122
CHOLSTRL        98.30878     123.42195    1975.39553                          CHOLSTRL      0.16004       0.16122       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2      279     277      2     185.90585     128.00000     102.56679   105.00000     2.4332   -0.00977    0.05351   -20.62993
AT EXAM NO.4      308     307      1     184.68578       0.0         103.82736    94.00000    -9.8274   -0.08575    0.07750   -10.93626
AT EXAM NO.6      309     307      2     202.16340     200.00000     104.00000   101.00000    -3.0000   -0.03608    0.05273   -11.53914

SYSTOLIC

AT EXAM NO.2      279     277      2     311.01489    1104.50000     132.39350   168.50000    36.1065    0.11824    0.04095   -20.62993
AT EXAM NO.4      308     307      1     263.90679       0.0         127.79805   142.00000    14.2020    0.06468    0.06474   -10.93626
AT EXAM NO.6      309     307      2     314.84976      18.00000     130.29642   141.00000    10.7036    0.03535    0.04256   -11.53914

CHOLSTRL

AT EXAM NO.2      279     277      2    2431.24054      50.00000     229.95307   233.00000     3.0469   -0.00464    0.01477   -20.62993
AT EXAM NO.4      308     307      1    1705.36259       0.0         234.42345   267.00000    32.5765    0.01981    0.02491   -10.93626
AT EXAM NO.6      309     307      2    1844.90420     648.00000     243.51466   283.00000    39.4853    0.02054    0.01679   -11.53914


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     8.40
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.40
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 -
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                                 TABLE 23-A- 8.3
                                      THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                           MEN  46-49  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 857        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                  AVG X(1)       AVG X(0)      DIFF          CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR        T
                  (CASES)       (NON-CASES)                                OF VARIABLE     COEFFICIENT         OF COEFFICIENT
1     FRW         99.50000      102.89382    -3.39382          0.51       13.43593        -0.03614926          0.02747532        -1.316
2  SYSTOLIC      143.12500      131.30688    11.81812          3.35       18.16998         0.03812624          0.02015199         1.892
3  CHOLSTRL      255.00000      237.37573    17.62427          1.48       40.73680         0.01041158          0.00894540         1.164
 INTERCEPT                                                                                -8.81053532
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.00



VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                               VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           181.31473      52.42281     106.96886                                    FRW         68.00000     138.25000       62.50000
SYSTOLIC          52.42281     328.53358     102.99552                                 SYSTOLIC      138.25000     559.97222     1137.55556
CHOLSTRL         106.96886     102.99552    1641.65740                                 CHOLSTRL       62.50000    1137.55556     4197.22222


POOLED VARIANCE-COVARIANCE MATRIX                                                      POOLED CORRELATION MATRIX
   FRW           180.52416      53.02160     106.65861                                    FRW          1.00000       0.21719        0.19487
SYSTOLIC          53.02160     330.14827     110.21338                                 SYSTOLIC        0.21719       1.00000        0.14890
CHOLSTRL         106.65861     110.21338    1659.48692                                 CHOLSTRL        0.19487       0.14890        1.00000


                                                      SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     288       288     0      174.21418        0.0          101.73958     0.0         -101.7396   -0.45578     0.00457    53.59905
AT EXAM NO.4     276       270     6      194.72787       59.10000      103.20370   100.50000       -2.7037   -0.03522     0.03137    -8.04425
AT EXAM NO.6     301       299     2      176.04534      112.50000      103.72575    96.50000       -7.2258   -0.04936     0.05576    -4.95619

SYSTOLIC

AT EXAM NO.2     288       288     0      311.03299        0.0          130.90625     0.0         -130.9062   -0.30425     0.00344    53.59905
AT EXAM NO.4     276       270     6      374.49623      609.46667      132.69259   143.33333       10.6407    0.02810     0.02191    -8.04425
AT EXAM NO.6     301       299     2      303.89841      312.50000      130.44147   142.50000       12.0585    0.05053     0.04183    -4.95619

CHOLSTRL

AT EXAM NO.2     288       288     0     1267.67972        0.0          230.10069     0.0         -230.1007   -0.14048     0.00168    53.59905
AT EXAM NO.4     276       270     6     1733.65942     4958.26667      237.60741   264.33333       26.7259    0.01573     0.01015    -8.04425
AT EXAM NO.6     301       299     2     1918.78173      392.00000      244.17391   227.00000      -17.1739   -0.00852     0.01666    -4.95619


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.78
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    2.21

                                                                                                    * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A- 8.5
                             THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                  MEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 707        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS =  885

               AVG X(1)       AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT        STANDARD ERROR       T
               (CASES)       (NON-CASES)                              OF VARIABLE       COEFFICIENT         OF COEFFICIENT
 1     FRW     103.18182      103.70580    -0.52398         0.02       12.94761         -0.01437418          0.02420054       -0.594
 2  SYSTOLIC   150.09091      138.20792    11.88299         2.94       22.82665          0.02402225          0.01373960        1.748
 3  CHOLSTRL   245.18182      235.40736     9.77446         0.69       38.84166          0.00570372          0.00785404        0.726
  INTERCEPT                                                                             -7.50958267
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     3.78


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           167.54173      72.80269       28.35301                           FRW         176.33929     -91.25000      330.94643
SYSTOLIC          72.80269     524.83805       68.76306                         SYSTOLIC      -91.25000     188.25000      -27.62500
CHOLSTRL          28.35301      68.76306     1499.37411                         CHOLSTRL      330.94643     -27.62500     2327.10714


POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
   FRW           167.64058      70.95941       31.75294                           FRW           1.00000       0.24009        0.06314
SYSTOLIC          70.95941     521.05616       67.68005                         SYSTOLIC        0.24009       1.00000        0.07633
CHOLSTRL          31.75294      67.68005     1508.67448                         CHOLSTRL        0.06314       0.07633        1.00000


                                                      SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     237      230     7      174.35582      224.95238      102.70870    103.57143      0.8627    -0.00402     0.02944    -8.54632
AT EXAM NO.4     231      229     2      155.83686       60.50000      105.13537    102.50000     -2.6354    -0.02071     0.05966    -6.21343
AT EXAM NO.6     250      248     2      172.02872        0.50000      103.31048    102.50000     -0.8105    -0.01903     0.05663    -6.92825

SYSTOLIC

AT EXAM NO.2     237      230     7      625.81790      207.66667      140.70000    153.00000     12.3000     0.01997     0.01567    -8.54632
AT EXAM NO.4     231      229     2      521.34513      162.00000      138.10044    141.00000      2.8996     0.00714     0.03277    -6.21343
AT EXAM NO.6     250      248     2      434.44128       98.00000      135.99597    149.00000     13.0040     0.03410     0.03572    -6.92825

CHOLSTRL

AT EXAM NO.2     237      230     7     1610.61570     2494.47619      226.00435    243.85714     17.8528     0.01079     0.00953    -8.54632
AT EXAM NO.4     231      229     2     1559.99150     3200.00000      236.57205    254.00000     17.4279     0.01071     0.01803    -6.21343
AT EXAM NO.6     250      248     2     1340.28469      450.00000      243.05242    241.00000     -2.0524    -0.00328     0.01961    -6.92825


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.95
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.52
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.92
                                                                                                             * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-A- 8.6
                                      THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                          MEN  58-61   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 597          NUMBER OF CASES (N1) =  17          TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)        AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR         T
                  (CASES)      (NON-CASES)                                 OF VARIABLE        COEFFICIENT           OF COEFFICIENT
 1      FRW      95.76471       102.61307    -6.84836          5.02         12.42328          -0.05286421            0.02004203         -2.638
 2  SYSTOLIC    153.58824       139.36851    14.21973          5.36         24.96359           0.02609878            0.01002699          2.603
 3  CHOLSTRL    244.17647       234.15745    10.01902          0.98         41.06442           0.00464005            0.00602325          0.770
  INTERCEPT                                                                                   -3.24781518
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   12.89


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             154.10751     47.54659       9.26408                       FRW          164.10714     73.14286     115.10714
 SYSTOLIC            47.54659    608.04541     106.85139                    SYSTOLIC         73.14286   1265.34694     147.53061
 CHOLSTRL             9.26408    106.85139    1686.05241                    CHOLSTRL        115.10714    147.53061    1696.23554


 POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
    FRW             154.33776     48.13597      11.70126                       FRW            1.00000      0.15521       0.02294
 SYSTOLIC            48.13597    623.18064     107.78808                    SYSTOLIC          0.15521      1.00000       0.10515
 CHOLSTRL            11.70126    107.78808    1686.28689                    CHOLSTRL          0.02294      0.10515       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2      187       181     6       186.85770       68.70000     100.43094     92.50000     -7.9309    -0.06535     0.03115    -8.25377
 AT EXAM NO.4      212       205     7       139.65088      274.66667     103.60976     99.00000     -4.6098    -0.03928     0.03245    -4.69428
 AT EXAM NO.6      215       211     4       140.07949      102.00000     103.51659     95.00000     -8.5166    -0.05705     0.04314     5.61338

 SYSTOLIC

 AT EXAM NO.2      187       181     6       637.76998     2409.20000     139.21547    177.00000     37.7845     0.06004     0.01622    -8.25377
 AT EXAM NO.4      212       205     7       584.35930      680.80952     138.05854    148.14286     10.0843     0.01926     0.01605    -4.69428
 AT EXAM NO.6      215       211     4       605.57657      528.00000     140.77251    128.00000    -12.7725    -0.01546     0.02100     5.61338

 CHOLSTRL

 AT EXAM NO.2      187       181     6      1802.15230     1352.16667     231.32044    249.83333     18.5129     0.00689     0.00988    -8.25377
 AT EXAM NO.4      212       205     7      1799.35691     1556.95238     230.54634    249.57143     19.0251     0.01058     0.00909    -4.69428
 AT EXAM NO.6      215       211     4      1476.47100     2548.25000     240.09953    226.25000    -13.8495    -0.00789     0.01325     5.61338


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    16.93
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.90
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.11

                                                                                                            * DISCRIMINANT COEFFICIENT
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                                                  TABLE 23-A- 8.7
                                      THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                          MEN  62-65   EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 385         NUMBER OF CASES (N1) =  10          TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)       AVG X(0)      DIFF        CHI SQ.        STND DEV          DISCRIMINANT         STANDARD ERROR       T
                 (CASES)       (NON-CASES)                               OF VARIABLE       COEFFICIENT          OF COEFFICIENT
 1     FRW      101.50000      101.40260     0.09740        0.00         13.24876         -0.00998358           0.02477749       -0.403
 2  SYSTOLIC    154.80000      139.46494    15.33506        3.45         25.75746          0.02399399           0.01274258        1.883
 3  CHOLSTRL    240.40000      234.06753     6.33247        0.24         40.71815          0.00331298           0.00787981        0.420
  INTERCEPT                                                                               -6.95405562
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.78


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           175.78279      74.47807       23.94527                               FRW       161.71429      24.85714     105.89286
 SYSTOLIC         74.47807     649.64072       46.92356                             SYSTOLIC     24.85714    1416.85714     -28.21429
 CHOLSTRL         23.94527      46.92356     1660.81188                             CHOLSTRL    105.89286     -28.21429    1502.75000


 POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW           175.52963      73.58515       25.41990                               FRW         1.00000       0.21563       0.04712
 SYSTOLIC         73.58515     663.44667       45.57147                             SYSTOLIC      0.21563       1.00000       0.04345
 CHOLSTRL         25.41990      45.57147     1657.96758                             CHOLSTRL      0.04712       0.04345       1.00000


                                                        SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2        53        51     2     272.09255      112.50000     102.54902     98.50000      -4.0490    -0.02400     0.04514     -3.45221
 AT EXAM NO.4       166       162     4     172.13960      259.58333      99.48765    112.25000      12.7623     0.06909     0.03874    -13.68168
 AT EXAM NO.6       176       172     4     151.05219       80.25000     102.86628     92.25000     -10.6163    -0.09854     0.04360     -3.12003

 SYSTOLIC

 AT EXAM NO.2        53        51     2     810.25255     5000.00000     143.78431    162.00000      18.2157     0.02367     0.02478     -3.45221
 AT EXAM NO.4       166       162     4     672.44153     1107.66667     137.76543    152.50000      14.7346     0.01706     0.01958    -13.68168
 AT EXAM NO.6       176       172     4     581.21076      531.66667     139.78488    153.50000      13.7151     0.03781     0.02206     -3.12003

 CHOLSTRL

 AT EXAM NO.2        53        51     2    1305.60078      420.50000     218.80392    213.50000      -5.3039    -0.00459     0.02015     -3.45221
 AT EXAM NO.4       166       162     4    1758.20125      982.66667     235.47531    237.00000       1.5247     0.00081     0.01213    -13.68168
 AT EXAM NO.6       176       172     4    1672.98069     2383.58333     237.26744    257.25000      19.9826     0.01386     0.01239     -3.12003


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.06
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.43
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.20

                                                                                                               * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A- 8.8
                              THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                  MEN  66-69  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 175         NUMBER OF CASES (N1) =   6         TOTAL NUMBER BEFORE EXCLUSIONS =  294

               AVG X(1)        AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR      T
               (CASES)        (NON-CASES)                              OF VARIABLE       COEFFICIENT         OF COEFFICIENT
 1     FRW     100.50000       101.05714   -0.55714        0.01        14.83387          -0.00436963          0.02881268       -0.152
 2  SYSTOLIC   144.50000       142.44000    2.06000        0.04        25.36331           0.00397934          0.01685173        0.236
 3  CHOLSTRL   223.66667       238.41143  -14.74476        0.80        39.80113          -0.00935196          0.01043303       -0.896
  INTERCEPT                                                                              -1.34291066
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     0.86


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW           210.77604      96.45538     -12.29027                            FRW       620.87500    -224.62500     297.75000
 SYSTOLIC          96.45538     640.54872      19.73969                         SYSTOLIC    -224.62500     762.18750    -332.62500
 CHOLSTRL         -12.29027      19.73969    1599.59530                         CHOLSTRL     297.75000    -332.62500     915.25000


 POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
    FRW           220.04381      89.19933      -5.28371                            FRW         1.00000       0.23708      -0.00895
 SYSTOLIC          89.19933     643.29762      11.77664                         SYSTOLIC     0.23708       1.00000       0.01167
 CHOLSTRL          -5.28371      11.77664    1584.12987                         CHOLSTRL    -0.00895       0.01167       1.00000


                                         SUMMARY OF EXAMS 2,4,AND 6

              NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2     0       0     0       0.0            0.0            0.0          0.0          0.0      -0.02400     0.0          0.0
 AT EXAM NO.4    43      41     2     314.35488      144.50000      103.53659    104.50000      0.9634    0.01383     0.04297     -0.50529
 AT EXAM NO.6   138     134     4     179.62451      779.66667      100.29851     98.50000     -1.7985   -0.01687     0.03745     -2.61484

 SYSTOLIC

 AT EXAM NO.2     0       C     0       0.0            0.0            0.0          0.0          0.0       0.02367     0.0          0.0
 AT EXAM NO.4    43      41     2     782.53049       72.00000      147.65854    130.00000    -17.6585   -0.02462     0.02804     -0.50529
 AT EXAM NO.6   138     134     4     597.84744      992.25000      140.84328    151.75000     10.9067    0.01907     0.02118     -2.61484

 CHOLSTRL

 AT EXAM NO.2     0       0     0       0.0            0.0            0.0          0.0          0.0      -0.00459     0.0          0.0
 AT EXAM NO.4    43      41     2    2245.73902     2312.00000      224.75610    212.00000    -12.7561   -0.00245     0.01571     -0.50529
 AT EXAM NO.6   138     134     4    1405.26636      449.66667      242.58955    229.50000    -13.0896   -0.00851     0.01368     -2.61484


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.91
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6
                                                                                              * DISCRIMINANT COEFFICIENT
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                                      TABLE 23-A- 9.3
                          THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                 MEN  46-49  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 866         NUMBER OF CASES (N1) =    5        TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                AVG X(1)       AVG X(0)     DIFF         CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)     (NON-CASES)                              OF VARIABLE       COEFFICIENT        OF COEFFICIENT
1      FRW    110.60000      102.85566    7.74434          1.63        13.54100          0.00794821          0.03442578       0.231
2  SYSTOLIC   167.80000      131.23788   36.56212         21.03        17.77851          0.11337283          0.02604780       4.352
3  CHOLSTRL   255.60000      237.31062   18.28938          1.00        40.82758          0.00268801          0.01127924       0.238
 INTERCEPT                                                                              -23.61659987
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   21.16


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           183.61491      53.01032     107.14802                        FRW       109.66667      24.83333     116.83333
SYSTOLIC          53.01032     316.63565     116.03872                     SYSTOLIC      24.83333     154.91667    -390.08333
CHOLSTRL         107.14802     116.03872    1666.82195                     CHOLSTRL     116.83333    -390.08333    1686.91667


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW           183.35874      52.91271     107.18157                        FRW         1.00000       0.21979       0.19387
SYSTOLIC          52.91271     316.07542     114.28541                     SYSTOLIC       0.21979       1.00000       0.15745
CHOLSTRL         107.18157     114.28541    1666.89156                     CHOLSTRL       0.19387       0.15745       1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    290      289     1     178.66671         0.0       101.73702   103.00000      1.2630   -0.02288     0.07675   -21.72443
AT EXAM NO.4    277      273     4     191.30877     109.66667     103.00733   112.50000      9.4927    0.01839     0.03836   -22.18606
AT EXAM NO.6    304      304     0     181.41146         0.0       103.78289     0.0       -103.7829   -0.41581     0.00445    47.02327

SYSTOLIC

AT EXAM NO.2    290      289     1     307.64050         0.0       130.86159   160.00000     29.1384    0.09227     0.05887   -21.72443
AT EXAM NO.4    277      273     4     337.57372     154.91667     132.25641   169.75000     37.4936    0.10966     0.02858   -22.18606
AT EXAM NO.6    304      304     0     306.38960         0.0       130.68092     0.0       -130.6809   -0.32783     0.00337    47.02327

CHOLSTRL

AT EXAM NO.2    290      289     1    1263.76031         0.0       230.01038   263.00000     32.9896    0.02020     0.02855   -21.72443
AT EXAM NO.4    277      273     4    1784.53200    1686.91667     238.10989   253.75000     15.6401   -0.00235     0.01246   -22.18606
AT EXAM NO.6    304      304     0    1944.26294         0.0       243.53289     0.0       -243.5329   -0.08001     0.00134    47.02327


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.31
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    16.75
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                            TABLE 23-A- 9.4
                             THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                        MEN  50-53  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 781        NUMBER OF CASES (N1) =    6        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR      T
                 (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW      113.83333     103.13956   10.69377        4.19        12.74908         0.04927122          0.03314619        1.486
2  SYSTOLIC    160.66667     134.53393   26.13274        8.87        21.41316         0.05447159          0.01989693        2.738
3  CHOLSTRL    226.16667     237.55442  -11.38775        0.47        40.59789        -0.01347460          0.01027007       -1.312
  INTERCEPT                                                                         -15.12987060
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    12.53


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            162.04357     62.25957      57.02607                        FRW       291.00000     397.00000     206.50000
SYSTOLIC           62.25957    451.34164     147.13282                     SYSTOLIC     397.00000    2321.00000      -4.16667
CHOLSTRL           57.02607    147.13282    1651.26077                     CHOLSTRL     206.50000      -4.16667     851.58333


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW            162.53892     63.54539      57.60024                        FRW         1.00000       0.23277       0.11129
SYSTOLIC           63.54539    458.52343     146.55164                     SYSTOLIC       0.23277       1.00000       0.16858
CHOLSTRL           57.60024    146.55164    1648.18902                     CHOLSTRL       0.11129       0.16858       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    256       252     4       148.21735      291.00000      103.72222   114.50000     10.7778    0.04376     0.04370   -13.50814
AT EXAM NO.4    273       272     1       164.08140        0.0          102.80882   115.00000     12.1912    0.05255     0.07979   -25.67991
AT EXAM NO.6    258       257     1       173.44252        0.0          102.91829   110.00000      7.0817    0.03933     0.07789   -11.40020

SYSTOLIC

AT EXAM NO.2    256       252     4       475.98438     2321.00000      134.08730   162.50000     28.4127    0.05250     0.02413   -13.50814
AT EXAM NO.4    273       272     1       422.71032        0.0          133.24632   160.00000     26.7537    0.05201     0.04986   -25.67991
AT EXAM NO.6    258       257     1       457.48915        0.0          136.33463   154.00000     17.6654    0.04559     0.04880   -11.40020

CHOLSTRL

AT EXAM NO.2    256       252     4      1503.59405      851.58333      230.55952   217.25000    -13.3095   -0.01427     0.01317   -13.50814
AT EXAM NO.4    273       272     1      1255.41307        0.0          236.73529   276.00000     39.2647    0.02624     0.02852   -25.67991
AT EXAM NO.6    258       257     1      2215.08527        0.0          245.28016   212.00000    -33.2802   -0.02167     0.02207   -11.40020


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     8.48
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.05
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.80
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A- 9.5
                               THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                    MEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 707          NUMBER OF CASES (N1) =  10         TOTAL NUMBER BEFORE EXCLUSIONS =  885

                 AVG X(1)        AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR       T
                 (CASES)        (NON-CASES)                                OF VARIABLE        COEFFICIENT           OF COEFFICIENT
 1     FRW      105.10000       103.56294     1.53706          0.14         12.85954         -0.00038458           0.02549513        -0.015
 2  SYSTOLIC    148.20000       138.13154    10.06846          1.93         22.74095          0.01728727           0.01444814         1.197
 3  CHOLSTRL    260.30000       235.75813    24.54187          3.98         38.63851          0.01558760           0.00827625         1.883
   INTERCEPT                                                                                -10.55944559
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.48


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                           VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            164.10065       65.22168       26.16474                             FRW        292.79286     432.35714      44.53571
 SYSTOLIC          65.22168      505.32263       77.72446                           SYSTOLIC     432.35714    1706.71429    -291.92857
 CHOLSTRL          26.16474       77.72446     1498.17551                           CHOLSTRL      44.53571    -291.92857     965.82143


 POOLED VARIANCE-COVARIANCE MATRIX                                                  POOLED CORRELATION MATRIX
   FRW            165.36766       68.83623       26.34561                             FRW          1.00000       0.23539       0.05302
 SYSTOLIC          68.83623      517.15067       74.08512                           SYSTOLIC       0.23539       1.00000       0.08431
 CHOLSTRL          26.34561       74.08512     1492.93433                           CHOLSTRL       0.05302       0.08431       1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B   INTERCEPT

     FRW

  AT EXAM NO.2     237       233      4       164.95157      374.25000      102.62232    109.75000       7.1277      0.02877     0.03965    -17.01445
  AT EXAM NO.4     228       227      1       155.32853        0.0          104.88987    101.00000      -3.8899     -0.02754     0.08401    -11.50007
  AT EXAM NO.6     252       247      5       171.35710      231.70000      103.23077    102.20000      -1.0308     -0.01109     0.03557     -5.57224

  SYSTOLIC

  AT EXAM NO.2     237       233      4       572.64448     1883.66667      140.20172    160.50000      20.2983      0.03011     0.02114    -17.01445
  AT EXAM NO.4     228       227      1       508.90612        0.0          138.03084    140.00000       1.9692      0.00233     0.04666    -11.50007
  AT EXAM NO.6     252       247      5       438.53994     1574.00000      136.27126    140.00000       3.7287      0.00856     0.02190     -5.57224

  CHOLSTRL

  AT EXAM NO.2     237       233      4      1607.39278      575.58333      226.84120    263.75000      36.9088      0.02188     0.01265    -17.01445
  AT EXAM NO.4     228       227      1      1553.85295        0.0          237.13656    288.00000      50.8634      0.03270     0.02557    -11.50007
  AT EXAM NO.6     252       247      5      1344.02304     1258.50000      242.90283    252.00000       9.0972      0.00658     0.01243     -5.57224


  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     6.39
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.77
  CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.51
                                                                                                           * DISCRIMINANT COEFFICIENT
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                                                  TABLE 23-A- 9.6
                                   THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                          MEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 612          NUMBER OF CASES (N1) =    8         TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR       T
                 (CASES)        (NON-CASES)                                OF VARIABLE       COEFFICIENT           OF COEFFICIENT
 1     FRW      103.50000       102.23856    1.26144          0.08         12.32199          -0.00486103           0.02910214         -0.167
 2  SYSTOLIC    170.37500       139.31046   31.06454         12.81         24.39000           0.05486069           0.01480655          3.705
 3  CHOLSTRL    221.37500       234.64542  -13.27042          0.83         41.01143          -0.01174561           0.00873890         -1.344
  INTERCEPT                                                                                  -9.65390097
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   14.64


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                              VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW              151.10467     36.01310        1.83202                                FRW       240.34000      152.02000       69.96000
SYSTOLIC             36.01310    592.19411      113.96548                             SYSTOLIC     152.02000      921.06000      660.88000
CHOLSTRL              1.83202    113.96548     1677.97138                             CHOLSTRL      69.96000      660.88000     2165.04000


POOLED VARIANCE-COVARIANCE MATRIX                                                     POOLED CORRELATION MATRIX
   FRW              151.83134     36.95778        2.38681                                FRW         1.00000        0.12297        0.00472
SYSTOLIC             36.95778    594.87218      118.41918                             SYSTOLIC       0.12297        1.00000        0.11839
CHOLSTRL              2.38681    118.41918     1681.93774                             CHOLSTRL       0.00472        0.11839        1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)     AVG X(0)     AVG X(1)          DIFF        BETA*      STND ERR B   INTERCEPT

   FRW

AT EXAM NO.2      190       185      5      182.08772      297.30000       99.87568    104.40000         4.5243      0.00669      0.03380    -10.96472
AT EXAM NO.4      217       215      2      141.81743       12.50000      103.25581     96.50000        -6.7558     -0.04665      0.06003      3.88094
AT EXAM NO.6      213       212      1      133.50557        0.0          103.26887    113.00000         9.7311      0.05033      0.08737    -28.77572

SYSTOLIC

AT EXAM NO.2      190       185      5      681.76351     1115.20000      139.27027    179.20000        39.9297      0.06067      0.01769    -10.96472
AT EXAM NO.4      217       215      2      515.72341      144.50000      138.07442    133.50000        -4.5744     -0.00566      0.03149      3.88094
AT EXAM NO.6      213       212      1      591.64417        0.0          140.59906    200.00000        59.4009      0.09610      0.04203    -28.77572

CHOLSTRL

AT EXAM NO.2      190       185      5     1799.81598     2128.30000      232.52432    219.60000       -12.9243     -0.01323      0.01080    -10.96472
AT EXAM NO.4      217       215      2     1804.54627     2312.00000      231.23721    205.00000       -26.2372     -0.01435      0.01672      3.83094
AT EXAM NO.6      213       212      1     1443.34374        0.0          239.95283    263.00000        23.0472      0.00641      0.02674    -28.77572


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     12.77
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =      1.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =      6.32

                                                                                                  * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A- 9.7
                          THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                MEN  62-65  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 406      NUMBER OF CASES (N1) =   9      TOTAL NUMBER BEFORE EXCLUSIONS =  571

              AVG X(1)     AVG X(0)     DIFF        CHI SQ.    STND DEV      DISCRIMINANT     STANDARD ERROR       T
               (CASES)    (NON-CASES)                         OF VARIABLE    COEFFICIENT      OF COEFFICIENT
1     FRW     101.22222    100.83005    0.39217       0.01     13.43062      -0.01025931        0.02560202      -0.401
2  SYSTOLIC   160.44444    139.66749   20.77696       5.99     25.19474       0.03390362        0.01364903       2.484
3  CHOLSTRL   232.66667    235.44335   -2.77668       0.04     41.01992      -0.00212231        0.00821980      -0.258
 INTERCEPT                                                                   -7.36337308
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.22


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                         VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           180.84516     72.57294      12.94784               FRW       149.23810    -312.64286     -30.40476
SYSTOLIC         72.57294    631.37270      31.85616             SYSTOLIC   -312.64286     863.28571    -288.52381
CHOLSTRL         12.94784     31.85616    1680.01933             CHOLSTRL    -30.40476    -288.52381    1858.23810

POOLED VARIANCE-COVARIANCE MATRIX                                POOLED CORRELATION MATRIX
  FRW           180.38149     66.92185      12.31186               FRW        1.00000       0.19777       0.02235
SYSTOLIC         66.92185    634.77484      27.15621             SYSTOLIC     0.19777       1.00000       0.02628
CHOLSTRL         12.31186     27.15621    1682.63379             CHOLSTRL     0.02235       0.02628       1.00000

                                        SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     54       53     1     262.62119        0.0         102.73585    91.00000    -11.7358   -0.02999    0.06379     5.92645
AT EXAM NO.4    172      165     7     177.21449      149.23810      98.47879   105.71429      7.2355    0.03075    0.02933   -15.55132
AT EXAM NO.6    189      188     1     161.28942        0.0         102.35638    80.00000    -22.3564   -0.14571    0.08210    13.07660

SYSTOLIC

AT EXAM NO.2     54       53     1     911.98041        0.0         146.01887   112.00000    -34.0189   -0.03277    0.03425     5.92645
AT EXAM NO.4    172      165     7     635.37339      863.28571     136.69091   168.57143     31.8805    0.04709    0.01535   -15.55132
AT EXAM NO.6    189      188     1     549.83411        0.0         140.48936   152.00000     11.5106    0.04275    0.04436    13.07660

CHOLSTRL

AT EXAM NO.2     54       53     1    1281.45936        0.0         219.66038   199.00000    -20.6604   -0.01321    0.02831     5.92645
AT EXAM NO.4    172      165     7    1768.87140     1858.23810     236.45455   252.28571     15.8312    0.00845    0.00918   -15.55132
AT EXAM NO.6    189      188     1    1712.92511        0.0         239.00532   129.00000   -110.0053   -0.06130    0.02429    13.07660


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.71
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    12.47
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    10.44

                                                                                              * DISCRIMINANT COEFFICIENT
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                                             TABLE 23-A- 9.8
                              THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                         MEN   66-69  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 185        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)       AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT        STANDARD ERROR       T
                (CASES)       (NON-CASES)                               OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW     115.50000      100.08649   15.41351         4.40        14.54579          0.08367878          0.03574328         2.341
2  SYSTOLIC    133.00000      142.61622   -9.61622         0.56        25.36160         -0.02563702          0.02052508        -1.249
3  CHOLSTRL    227.00000      238.50811  -11.50811         0.34        39.09621         -0.00719817          0.01294438        -0.556
 INTERCEPT                                                                              -7.64567586
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.34


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW             203.11087      92.83201      10.37783                             FRW       986.50000    -483.00000     -38.50000
SYSTOLIC           92.83201     640.60079      33.84662                           SYSTOLIC   -483.00000     882.00000    1701.00000
CHOLSTRL           10.37783      33.84662    1497.29535                           CHOLSTRL    -38.50000    1701.00000    4385.00000


POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
  FRW             211.57994      86.60680       9.84942                             FRW         1.00000       0.23477       0.01732
SYSTOLIC           86.60680     643.21051      51.86990                           SYSTOLIC      0.23477       1.00000       0.05231
CHOLSTRL            9.84942      51.86990    1528.51378                           CHOLSTRL      0.01732       0.05231       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2        0        0     0        0.0            0.0           0.0          0.0          0.0     -0.02999     0.0          0.0
AT EXAM NO.4       46       44     2    291.73573      112.50000     103.40909    110.50000       7.0909    0.04257     0.04469     -3.29436
AT EXAM NO.6      143      141     2    175.89037     1860.50000      99.04965    120.50000      21.4504    0.12195     0.05323    -12.89751

SYSTOLIC

AT EXAM NO.2        0        0     0        0.0            0.0           0.0          0.0          0.0     -0.03277     0.0          0.0
AT EXAM NO.4       46       44     2    729.23044      882.00000     148.45455    127.00000     -21.4545   -0.03868     0.02880     -3.29436
AT EXAM NO.6      143      141     2    613.37882      882.00000     140.79433    139.00000      -1.7943   -0.01768     0.02940    -12.89751

CHOLSTRL

AT EXAM NO.2        0        0     0        0.0            0.0           0.0          0.0          0.0     -0.01321     0.0          0.0
AT EXAM NO.4       46       44     2   1999.25317     8192.00000     223.65909    221.00000      -2.6591    0.00439     0.01615     -3.29436
AT EXAM NO.6      143      141     2   1343.12259      578.00000     243.14184    233.00000     -10.1418   -0.00955     0.01949    -12.89751


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.14
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.41
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-A-10.1
                                 THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                   MEN  38-41   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 722        NUMBER OF CASES (N1) =    6       TOTAL NUMBER BEFORE EXCLUSIONS =  835

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)      (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW      94.66667       103.29363   -8.62696        2.50        13.32276        -0.08488950          0.03291636       -2.579
2  SYSTOLIC    142.00000       127.53463   14.46537        4.80        16.10850         0.07458665          0.02690374        2.772
3  CHOLSTRL    250.50000       230.95845   19.54155        1.18        43.96548         0.01190601          0.00950936        1.252
  INTERCEPT                                                                            -9.30585812
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    12.16


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          177.94287      69.88239    109.58246                          FRW         97.16667    -143.00000      283.33333
SYSTOLIC         69.88239     257.50023     79.05187                       SYSTOLIC     -143.00000     616.00000      116.50000
CHOLSTRL        109.58246      79.05187   1927.88210                       CHOLSTRL      283.33333     116.50000     2846.33333


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW          177.49597      68.70462    110.54374                          FRW          1.00000       0.32014        0.18872
SYSTOLIC         68.70462     259.48363     79.25906                       SYSTOLIC        0.32014       1.00000        0.11191
CHOLSTRL        110.54374      79.25906   1932.96344                       CHOLSTRL        0.18872       0.11191        1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      323      320    3      182.61752      65.33333     102.25625    94.33333     -7.9229    -0.05418    0.04677    -2.31005
AT EXAM NO.4      317      314    3      177.25915     129.00000     103.46497    95.00000     -8.4650    -0.10951    0.04636   -15.98526
AT EXAM NO.6       88       88    0      163.26228       0.0         106.45455     0.0       -106.4545    -0.46426    0.00870    56.75603

SYSTOLIC

AT EXAM NO.2      323      320    3      238.50853      28.00000     127.16562   124.00000     -3.1656    -0.00245    0.03988    -2.31005
AT EXAM NO.4      317      314    3      277.39453    1204.00000     127.49363   160.00000     32.5064     0.14004    0.03667   -15.98526
AT EXAM NO.6       88       88    0      255.56270       0.0         129.02273     0.0       -129.0227    -0.39972    0.00689    56.75603

CHOLSTRL

AT EXAM NO.2      323      320    3     1925.38366    4290.33333     226.04375   244.66667     18.6229     0.01391    0.01362    -2.31005
AT EXAM NO.4      317      314    3     1871.69631    1402.33333     234.77389   256.33333     21.5594     0.00844    0.01361   -15.98526
AT EXAM NO.6       88       88    0     2139.18273       0.0         235.21591     0.0       -235.2159    -0.09128    0.00232    56.75603


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    2.07
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   16.82
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-A-10.2
                                          THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                              MEN  42-45  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 891          NUMBER OF CASES (N1) =   9          TOTAL NUMBER BEFORE EXCLUSIONS = 1054

                 AVG X(1)       AVG X(0)      DIFF         CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR        T
                 (CASES)      (NON-CASES)                               OF VARIABLE        COEFFICIENT           OF COEFFICIENT
1     FRW      105.66667       103.50281     2.16386          0.22        13.84616         -0.00516439            0.02522487        -0.205
2  SYSTOLIC    145.33333       130.06173    15.27160          7.01        17.22073          0.05291680            0.02030165         2.607
3  CHOLSTRL    240.77778       236.21549     4.56229          0.09        44.34307         -0.00083097            0.00772008        -0.108
  INTERCEPT                                                                              -11.14333320
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    7.07


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            192.21447     62.13459      99.75749                              FRW       117.95833     -85.25000   -121.16667
SYSTOLIC           62.13459    295.09427     124.03292                           SYSTOLIC     -85.25000     512.50000    519.16667
CHOLSTRL           99.75749    124.03292    1963.94532                           CHOLSTRL    -121.16667     519.16667   2315.95833

POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
   FRW            191.71611     61.14543      98.27478                              FRW         1.00000       0.25644      0.16006
SYSTOLIC           61.14543    296.55337     126.68483                           SYSTOLIC      0.25644       1.00000      0.16590
CHOLSTRL           98.27478    126.68483    1966.30782                           CHOLSTRL      0.16006       0.16590      1.00000


                                                    SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     279      278     1      185.69697        0.0          102.57194    106.00000       3.4281     0.00107     0.07554   -12.12785
AT EXAM NO.4     311      307     4      187.22695      211.00000      103.90879    103.50000      -0.4088    -0.01648     0.03871    -8.35180
AT EXAM NO.6     310      306     4      203.13751       24.91667      103.94118    107.75000       3.8088    -0.01096     0.03742   -13.09572

SYSTOLIC

AT EXAM NO.2     279      278     1      323.19934        0.0          132.66187    130.00000      -2.6619    -0.02258     0.05697   -12.12785
AT EXAM NO.4     311      307     4      259.42045      498.66667      127.79153    140.00000      12.2085     0.05346     0.03273    -8.35180
AT EXAM NO.6     310      306     4      305.36013      526.33333      129.97712    154.50000      24.5229     0.08664     0.03051   -13.09572

CHOLSTRL

AT EXAM NO.2     279      278     1     2399.50821        0.0          229.68705    310.00000      80.3129     0.03466     0.02095   -12.12785
AT EXAM NO.4     311      307     4     1708.23044      782.25000      234.52769    228.75000      -5.7777    -0.00621     0.01255    -8.35180
AT EXAM NO.6     310      306     4     1824.92182     3849.66667      243.83987    235.50000      -8.3399    -0.01004     0.01191   -13.09572


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.84
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.75
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.55
                                                                                                                * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-10.3
                                 THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                   MEN   46-49   EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 853          NUMBER OF CASES (N1) =  20          TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                 AVG X(1)       AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT         STANDARD ERROR       T
                 (CASES)      (NON-CASES)                                 OF VARIABLE        COEFFICIENT          OF COEFFICIENT
1     FRW       100.35000      102.93904    -2.58904          0.71          13.54552         -0.02398537           0.01735705         -1.382
2  SYSTOLIC     136.95000      131.47948     5.47052          1.74          18.32356          0.01745982           0.01271663          1.373
3  CHOLSTRL     249.85000      237.09496    12.75504          1.91          40.83953          0.00806665           0.00568426          1.419
 INTERCEPT                                                                                   -5.62241757
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.09


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          185.69879      53.75424     108.35322                           FRW         72.60294      31.48529     151.75000
SYSTOLIC         53.75424     317.70219     117.75280                        SYSTOLIC       31.48529    1238.28676    -278.63235
CHOLSTRL        108.35322     117.75280    1658.89758                        CHOLSTRL      151.75000    -278.63235    2116.36765


POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
   FRW          183.48123      53.31759     109.20414                           FRW          1.00000       0.21482       0.19741
SYSTOLIC         53.31759     335.75287     109.98054                        SYSTOLIC        0.21482       1.00000       0.14697
CHOLSTRL        109.20414     109.98054    1667.86759                        CHOLSTRL        0.19741       0.14697       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B   INTERCEPT

  FRW

AT EXAM NO.2     290       282    8     180.54735      100.78571      101.78369    100.25000      -1.5337    -0.01305     0.02747     -5.42118
AT EXAM NO.4     278       270    8     194.52491       65.14286      103.13333    102.50000      -0.6333    -0.01422     0.02729     -6.42011
AT EXAM NO.6     305       301    4     182.60990       24.25000      103.84718     96.25000      -7.5972    -0.05957     0.03918     -4.88294

SYSTOLIC

AT EXAM NO.2     290       282    8     292.94081     1010.26786      130.88652    133.62500       2.7385     0.00816     0.02099     -5.42118
AT EXAM NO.4     278       270    8     352.28508     1861.71429      132.90741    142.00000       9.0926     0.02389     0.01873     -6.42011
AT EXAM NO.6     305       301    4     309.88602      315.66667      130.75415    133.50000       2.7458     0.01283     0.02941     -4.88294

CHOLSTRL

AT EXAM NO.2     290       282    8    1273.69274      874.50000      229.80851    241.25000      11.4415     0.00891     0.01022     -5.42118
AT EXAM NO.4     278       270    8    1734.00558     4100.28571      237.83333    247.00000       9.1667     0.00446     0.00881     -6.42011
AT EXAM NO.6     305       301    4    1952.35929      384.91667      243.25914    272.75000      29.4909     0.01871     0.01179     -4.88294


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.12
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.07
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.10

                                                                                                            * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A-10.4
                                THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                  MEN  50-53  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 764        NUMBER OF CASES (N1) =  28        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                 AVG X(1)      AVG X(0)       DIFF        CHI SQ.     STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)     (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW       102.C0000     103.26440    -1.26440         0.26      12.77037        -0.02042455          0.01557488       -1.311
2  SYSTOLIC     146.89286     134.48953    12.40333         8.96      21.54085         0.02899238          0.00929237        3.120
3  CHOLSTRL     243.67857     237.07592     6.60266         0.71      40.60181         0.00230433          0.00481117        0.479
  INTERCEPT                                                                          -5.84302747
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    10.82


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            159.25156     70.55907     51.59001                          FRW        279.69422     -48.15911     207.22933
SYSTOLIC           7C.55907    454.69347    139.71659                       SYSTOLIC      -48.15911     747.54470      40.00362
CHOLSTRL           51.59001    139.71659   1551.76316                       CHOLSTRL      207.22933      40.00362    4593.37657


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW            163.08244     66.78304     56.54037                          FRW          1.00000       0.24277       0.10905
SYSTOLIC           66.78304    464.00808    136.54506                       SYSTOLIC        0.24277       1.00000       0.15612
CHOLSTRL           56.54037    136.54506   1648.50659                       CHOLSTRL        0.10905       0.15612       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2        257     252     5     150.46247      174.20000    103.80159   107.80000     3.9984    0.02270     0.03905    -9.34307
AT EXAM NO.4        274     260    14     159.58828      269.23077    102.78846   103.00000     0.2115   -0.01606     0.02183    -9.24844
AT EXAM NO.6        261     252     9     167.69321      349.44444    103.21825    97.22222    -5.9960   -0.03894     0.02648    -1.29237

SYSTOLIC

AT EXAM NO.2        257     252     5     521.66022      993.20000    134.73810   138.80000     4.0619    0.00150     0.02091    -9.34307
AT EXAM NO.4        274     260    14     373.02679      913.45604    132.21538   154.92857    22.7132    0.05944     0.01408    -9.24844
AT EXAM NO.6        261     252     9     471.99633      355.11111    136.58730   138.88889     2.3016    0.00826     0.01634    -1.29237

CHOLSTRL

AT EXAM NO.2        257     252     5    1519.51867      2C7.30000    229.76587   248.40000    18.6341    0.01178     0.01174    -9.34307
AT EXAM NO.4        274     260    14    1242.86931     1537.78571    236.85000   238.35714     1.5071   -0.00234     0.00781    -9.24844
AT EXAM NO.6        261     252     9    1902.74673    11751.75000    244.61905   249.33333     4.7143    0.00294     0.00746    -1.29237


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.55
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    17.84
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.31

                                                                                                   * DISCRIMINANT COEFFICIENT
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                                             TABLE 23-A-10.5
                                   THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                     MEN  54-57  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 679         NUMBER OF CASES (N1) =  49        TOTAL NUMBER BEFORE EXCLUSIONS =  885

               AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR      T
               (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT        OF COEFFICIENT
1     FRW     102.14286     103.71429   -1.57143       0.68       12.85185       -0.02030890         0.01183865      -1.715
2  SYSTOLIC   151.20408     137.67599   13.52809      16.22       22.71130        0.02988062         0.00671108       4.452
3  CHOLSTRL   227.73469     236.19882   -8.46413       2.17       38.82429       -0.00671890         0.00382916      -1.755
 INTERCEPT                                                                       -3.29583072
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   22.53


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                               VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           157.25873      62.27514      29.45582                    FRW        281.43037     136.76101      80.19434
SYSTOLIC          62.27514     488.31179      73.68723                 SYSTOLIC      136.76101     919.80842     139.60262
CHOLSTRL          29.45582      73.68723    1491.97807                 CHOLSTRL       80.19434     139.60262    1732.86567


POOLED VARIANCE-COVARIANCE MATRIX                                      POOLED CORRELATION MATRIX
   FRW           165.16994      67.02078      32.68847                    FRW          1.00000       0.22962       0.06551
SYSTOLIC          67.02078     515.80327      77.88682                 SYSTOLIC        0.22962       1.00000       0.08833
CHOLSTRL          32.68847      77.88682    1507.32548                 CHOLSTRL        0.06551       0.08833       1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2    242     221    21     157.19227      305.91429     103.25792    96.71429     -6.5436   -0.04656    0.01789    -1.02192
 AT EXAM NO.4    233     223    10     149.53339      252.26667     104.65471   112.40000      7.7453    0.02883    0.02708    -9.20676
 AT EXAM NO.6    253     235    18     164.65037      268.06536     103.25106   102.77778     -0.4733   -0.01104    0.01930    -3.48697

 SYSTOLIC

 AT EXAM NO.2    242     221    21     547.83986     1210.25714     140.15385   151.57143     11.4176    0.02347    0.00946    -1.02192
 AT EXAM NO.4    233     223    10     481.50394      816.17778     137.23318   160.80000     23.5668    0.04720    0.01520    -9.20676
 AT EXAM NO.6    253     235    18     438.80396      632.96732     135.76596   145.44444      9.6785    0.02426    0.01193    -3.48697

 CHOLSTRL

 AT EXAM NO.2    242     221    21    1618.12789     1931.19048     227.16290   225.23810     -1.9248   -0.00044    0.00565    -1.02192
 AT EXAM NO.4    233     223    10    1545.36274     1665.87778     237.42601   214.90000    -22.5260   -0.01796    0.00827    -9.20676
 AT EXAM NO.6    253     235    18    1322.72868     1535.00654     243.53191   237.77778     -5,7541   -0.00563    0.00675    -3.48697


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =   11.00
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   16.66
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    4.55

                                                                                               * DISCRIMINANT COEFFICIENT
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                                                      TABLE 23-A-10.6
                                          THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                              MEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 585          NUMBER OF CASES (N1) =  49          TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)        AVG X(0)       DIFF        CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR      T
                 (CASES)        (NON-CASES)                              OF VARIABLE        COEFFICIENT         OF COEFFICIENT
 1      FRW     103.55102       102.23248     1.31854         0.51        12.44878          0.00229553          0.01205416       0.190
 2  SYSTOLIC    153.16327       138.72308    14.44019        15.39        24.74827          0.02372758          0.00610231       3.888
 3  CHOLSTRL    234.67347       234.64444     0.02902         0.00        41.36268         -0.00160563          0.00361893      -0.444
   INTERCEPT                                                                               -5.80208593
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    15.63


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW           154.81496      45.70761        8.81588                             FRW        156.95979     -17.50105     -10.56828
 SYSTOLIC          45.7C761     583.28495       84.54887                          SYSTOLIC      -17.50105     981.81906     517.76554
 CHOLSTRL           8.81588      84.54887     1718.35590                          CHOLSTRL      -10.56828     517.76554    1616.17060


 POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
    FRW           154.97207      41.07767        7.39602                             FRW          1.00000       0.13333       0.01436
 SYSTOLIC          41.C7767     612.47694      116.28130                          SYSTOLIC        0.13333       1.00000       0.11359
 CHOLSTRL           7.39602     116.28130     1710.87099                          CHOLSTRL        0.01436       0.11359       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1    VARIANCE X(0)   VARIANCE X(1)     AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B   INTERCEPT

   FRW

 AT EXAM NO.2     194     183    11      183.66823       207.47273      100.31694     95.54545      -4.7715    -0.02859     0.02314    -0.46078
 AT EXAM NO.4     223     206    17      142.96019       139.52941      102.80097    110.17647       7.3755     0.04508     0.02122   -13.16893
 AT EXAM NO.6     217     196    21      140.34796       145.64762      103.42347    102.38095      -1.0425    -0.01539     0.01955    -3.39277

 SYSTOLIC

 AT EXAM NO.2     194     183    11      732.52195       509.09091      140.00546    144.90909       4.9036     0.01009     0.01182    -0.46078
 AT EXAM NO.4     223     206    17      490.25453      1236.97059      137.06311    157.70588      20.6428     0.03558     0.01087   -13.16893
 AT EXAM NO.6     217     196    21      541.79830      1014.06190      139.27041    153.80952      14.5391     0.02731     0.00973    -3.39277

 CHOLSTRL

 AT EXAM NO.2     194     183    11     1829.54026      1425.87273      232.32787    225.54545      -6.7824    -0.00432     0.00737    -0.46078
 AT EXAM NO.4     223     206    17     1818.55186      2177.24265      231.64563    238.35294       6.7073     0.00268     0.00588   -13.16893
 AT EXAM NO.6     217     196    21     1509.24961      1262.46190      239.95918    236.47619      -3.4830    -0.00529     0.00605    -3.39277


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.23
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    17.04
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.19
                                                                                                            * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-A-10.7
                                          THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                             MEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 383         NUMBER OF CASES (N1) =  43         TOTAL NUMBER BEFORE EXCLUSIONS =  571

                 AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR       T
                 (CASES)      (NON-CASES)                          OF VARIABLE      COEFFICIENT        OF COEFFICIENT
 1    FRW        98.00000     101.17493   -3.17493        2.13      13.53263       -0.02090056         0.01217084       -1.717
 2  SYSTOLIC    144.20930     139.72324    4.48606        1.17      25.74757        0.00916638         0.00639497        1.433
 3  CHOLSTRL    232.97674     235.06527   -2.08853        0.10      41.35118       -0.00112989         0.00389423       -0.290
  INTERCEPT                                                                        -1.14229959
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    4.25


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           186.25412     85.49060      18.36744                        FRW         153.47225    -33.96652      73.88750
 SYSTOLIC         85.49060    644.87434      38.70620                      SYSTOLIC      -33.96652    834.53423      19.35000
 CHOLSTRL         18.36744     38.70620    1606.61123                      CHOLSTRL       73.88750     19.35000    2691.35000


 POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           183.13203     74.11373      23.65506                        FRW           1.00000      0.21271       0.04227
 SYSTOLIC         74.11373    662.93719      36.86276                      SYSTOLIC        0.21271      1.00000       0.03462
 CHOLSTRL         23.65506     36.86276    1709.91968                      CHOLSTRL        0.04227      0.03462       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2     54       48     6     268.59397      192.40000     103.20833     97.00000      -6.2083    -0.03012     0.02761    -4.00325
 AT EXAM NO.4    179      158    21     188.18290      156.64762      99.12025     97.95238      -1.1679    -0.01308     0.01734    -1.04356
 AT EXAM NO.6    193      177    16     162.54507      136.26250     102.45763     98.43750      -4.0201    -0.02531     0.02148    -0.68809

 SYSTOLIC

 AT EXAM NO.2     54       48     6     964.78679      628.26667     144.97917    148.66667       3.6875     0.00596     0.01459    -4.00325
 AT EXAM NO.4    179      158    21     635.20943     1230.91429     137.39873    148.71429      11.3156     0.01793     0.00889    -1.04356
 AT EXAM NO.6    193      177    16     568.06471      374.78333     140.37288    136.62500      -3.7479    -0.00327     0.01151    -0.68809

 CHOLSTRL

 AT EXAM NO.2     54       48     6    1254.05984     1149.60000     216.93750    238.00000      21.0625     0.01787     0.01236    -4.00325
 AT EXAM NO.4    179      158    21    1653.37729     2534.30000     237.93038    222.00000     -15.9304    -0.00979     0.00556    -1.04356
 AT EXAM NO.6    193      177    16    1659.04102     3414.66667     237.42373    245.50000       8.0763     0.00530     0.00619    -0.68809


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.12
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.94
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.30

                                                                                                          * DISCRIMINANT COEFFICIENT
                                          TABLE 23-A-10.8
                                THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                   MEN  66-69  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 178        NUMBER OF CASES (N1) =  21        TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)       AVG X(0)     DIFF         CHI SQ.      STND DEV         DISCRIMINANT        STANDARD ERROR      T
                (CASES)      (NON-CASES)                            OF VARIABLE        COEFFICIENT         OF COEFFICIENT
1     FRW       94.76190      101.22472   -6.46281          3.67      14.61523         -0.04446368          0.01637570      -2.715
2  SYSTOLIC    156.47619      140.96629   15.50990          7.14      25.15185          0.03200643          0.00953105       3.358
3  CHOLSTRL    229.09524      237.79775   -8.70251          0.92      39.35843         -0.00648367          0.00587374      -1.104
  INTERCEPT                                                                            -1.02656337
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   15.78


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          215.74571     94.00351    -10.23458                          FRW        193.77444    131.24812    237.30075
SYSTOLIC         94.00351    604.33765     -8.81210                       SYSTOLIC      131.24812    894.55639    709.66917
CHOLSTRL        -10.23458     -8.81210   1429.97757                       CHOLSTRL      237.30075    709.66917   2652.40602


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW          213.60492     97.63247     13.88424                          FRW          1.00000      0.26559      0.02414
SYSTOLIC         97.63247    632.61537     61.19376                       SYSTOLIC        0.26559      1.00000      0.06182
CHOLSTRL         13.88424     61.19376   1549.08598                       CHOLSTRL        0.02414      0.06182      1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2        0        0     0        0.0            0.0          0.0         0.0          0.0      -0.03012     0.0          0.0
AT EXAM NO.4       47       40     7      259.87436      219.66667    105.85000    88.00000    -17.8500    -0.09282     0.02792      1.52655
AT EXAM NO.6      152      138    14      203.18354      181.82418     99.88406    98.14286     -1.7412    -0.02011     0.02025     -2.26029

SYSTOLIC

AT EXAM NO.2        0        0     0        0.0            0.0          0.0         0.0          0.0       0.00596     0.0          0.0
AT EXAM NO.4       47       40     7      781.27179      770.47619    144.90000   155.14286     10.2429     0.03219     0.01646      1.52655
AT EXAM NO.6      152      138    14      553.96953      951.82418    139.82609   157.14286     17.3168     0.03163     0.01185     -2.26029

CHOLSTRL

AT EXAM NO.2        0        0     0        0.0            0.0          0.0         0.0          0.0       0.01787     0.0          0.0
AT EXAM NO.4       47       40     7     1563.75385     5717.00000    220.30000   235.00000     14.7000     0.00394     0.00921      1.52655
AT EXAM NO.6      152      138    14     1391.89527     1237.97802    242.86957   226.14286    -16.7267    -0.01165     0.00756     -2.26029


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   12.18
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    9.88

                                                                                                  * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-A-11.2
                                             THIS ANALYSIS IS FOR CHD DEATH
                                           MEN   42-45   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 895         NUMBER OF CASES (N1) =    5         TOTAL NUMBER BEFORE EXCLUSIONS = 1054

                  AVG X(1)        AVG X(0)      DIFF         CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR         T
                   (CASES)      (NON-CASES)                                OF VARIABLE        COEFFICIENT           OF COEFFICIENT
 1       FRW     106.60000       103.50726     3.09274          0.25        13.83930          -0.00305023            0.03380089         -0.090
 2  SYSTOLIC     146.80000       130.12179    16.67821          4.68        17.19785           0.05600744            0.02720533          2.059
 3  CHOLSTRL     247.60000       236.19777    11.40223          0.33        44.39236           0.00243926            0.01031612          0.236
   INTERCEPT                                                                                 -13.21184069
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     4.74


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                               VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW              192.03889      61.65242       98.10579                                FRW          39.05556       -23.11111      165.44444
 SYSTOLIC             61.65242     295.89682      122.86283                              SYSTOLIC      -23.11111       256.88889      197.11111
 CHOLSTRL             98.10579     122.86283     1970.86485                              CHOLSTRL      165.44444       197.11111     1916.22222


 POOLED VARIANCE-COVARIANCE MATRIX                                                      POOLED CORRELATION MATRIX
    FRW              191.52610      61.36830       98.33151                                FRW           1.00000         0.25784        0.16006
 SYSTOLIC             61.36830     295.76606      123.11171                              SYSTOLIC        0.25784         1.00000        0.16126
 CHOLSTRL             98.33151     123.11171     1970.68169                              CHOLSTRL        0.16006         0.16126        1.00000


                                                      SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2      279       279      0       185.07112          0.0         102.58423       0.0       -102.5842    -0.44287      0.00451     45.36881
 AT EXAM NO.4      311       309      2       187.56519     112.50000        103.87379   108.50000       4.6262     0.03685      0.05459     -4.32105
 AT EXAM NO.6      310       307      3       202.87203       2.33333        103.97720   105.33333       1.3561    -0.04064      0.04319    -18.60620

 SYSTOLIC

 AT EXAM NO.2      279       279      0       322.06214          0.0         132.65233       0.0       -132.6523    -0.33148      0.00340     45.36881
 AT EXAM NO.4      311       309      2       263.85697     128.00000        127.98706   122.00000      -5.9871    -0.02964      0.04597     -4.32105
 AT EXAM NO.6      310       307      3       304.37495     321.33333        129.97068   163.33333      33.3626     0.11880      0.03535    -18.60620

 CHOLSTRL

 AT EXAM NO.2      279       279      0      2413.99577          0.0         229.97491       0.0       -229.9749    -0.05478      0.00125     45.36881
 AT EXAM NO.4      311       309      2      1699.06897    1800.00000        234.49515   228.00000      -6.4951    -0.00401      0.01768     -4.32105
 AT EXAM NO.6      310       307      3      1841.85419    1974.33333        243.56678   260.66667      17.0999     0.00321      0.01372    -18.60620


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.74
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    11.77

                                                                                                                       * DISCRIMINANT COEFFICIENT
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                                                          TABLE 23-A-11.3
                                                  THIS ANALYSIS IS FOR CHD DEATH
                                                MEN  46-49  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 868          NUMBER OF CASES (N1) =   5          TOTAL NUMBER BEFORE EXCLUSIONS = 1010

               AVG X(1)       AVG X(0)     DIFF         CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR      T
               (CASES)       (NON-CASES)                            OF VARIABLE         COEFFICIENT           OF COEFFICIENT
1     FRW     106.40000      102.85945    3.54055          0.34       13.54487         -0.00474093             0.03437938       -0.138
2  SYSTOLIC   144.40000      131.53111   12.86889          2.49       18.18418          0.03081540             0.02541442        1.213
3  CHOLSTRL   283.20000      237.12327   46.07673          6.38       40.68364          0.02605251             0.01131404        2.303
 INTERCEPT                                                                            -15.69003832
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     7.86



VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW              183.75917     52.00205     107.17528                          FRW        98.25000     203.50000     102.25000
SYSTOLIC             52.00205    329.63418     112.14195                       SYSTOLIC     203.50000     627.66667     187.50000
CHOLSTRL            107.17528    112.14195    1660.41261                       CHOLSTRL     102.25000     187.50000     140.25000


POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
   FRW              183.46363     52.52566     107.15826                          FRW         1.00000       0.21326       0.19446
SYSTOLIC             52.52566    330.66425     112.40241                       SYSTOLIC       0.21326       1.00000       0.15194
CHOLSTRL            107.15826    112.40241    1655.15860                       CHOLSTRL       0.19446       0.15194       1.00000


                                                      SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF        BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    290      289     1       178.48866        0.0         101.71626   109.00000     7.2837    -0.01786     0.07674   -39.38808
AT EXAM NO.4    278      274     4       192.17359       98.25000     103.07664   105.75000     2.6734    -0.00824     0.03829   -10.74176
AT EXAM NO.6    305      305     0       181.19592        0.0         103.74754     0.0      -103.7475    -0.42008     0.00444    47.08694

SYSTOLIC

AT EXAM NO.2    290      289     1       293.97172        0.0         130.72318   200.00000    69.2768     0.24574     0.06029   -39.38808
AT EXAM NO.4    278      274     4       390.20931      627.66667     133.20803   130.50000    -2.7080    -0.01900     0.02624   -10.74176
AT EXAM NO.6    305      305     0       309.02161        0.0         130.79016     0.0      -130.7902    -0.32569     0.00334    47.08694

CHOLSTRL

AT EXAM NO.2    290      289     1      1267.43466        0.0         230.14187   225.00000    -5.1419    -0.02211     0.02855   -39.38808
AT EXAM NO.4    278      274     4      1761.68487      140.25000     237.22628   297.75000    60.5237     0.03694     0.01256   -10.74176
AT EXAM NO.6    305      305     0      1941.76236        0.0         243.64590     0.0      -243.6459    -0.07977     0.00134    47.08694


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    16.95
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.93
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                             * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-A-11.4
                                  THIS ANALYSIS IS FOR CHD DEATH
                                MEN  50-53  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 777          NUMBER OF CASES (N1) =  15        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                 AVG X(1)        AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT         STANDARD ERROR       T
                  (CASES)       (NON-CASES)                                OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1      FRW     102.80000       103.22780    -0.42780           0.02        12.75569          -0.01333200           0.02111576        -0.631
 2  SYSTOLIC    143.13333       134.76963     8.36371           2.19        21.66204           0.01636226           0.01251300         1.308
 3  CHOLSTRL    257.00000       236.92921    20.07079           3.62        40.46999           0.01134133           0.00654274         1.733
  INTERCEPT                                                                                   -7.64847632
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.45


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             163.04524       65.69856      57.05666                           FRW         140.93333      110.04167      104.80000
 SYSTOLIC           65.69856      466.14707     134.54535                         SYSTOLIC      110.04167      668.98958      393.35417
 CHOLSTRL           57.05666      134.54535    1560.57880                         CHOLSTRL      104.80000      393.35417     6619.90000

 POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
   FRW             162.70765       66.37555      57.78557                           FRW           1.00000        0.24022        0.11194
 SYSTOLIC           66.37555      469.24390     138.49663                         SYSTOLIC        0.24022        1.00000        0.15798
 CHOLSTRL           57.78557      138.49663    1637.82035                         CHOLSTRL        0.11194        0.15798        1.00000

                                                   SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1     NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2       257      255      2      149.87145        72.00000     103.76863    118.00000      14.2314     0.10214     0.06167   -17.68855
 AT EXAM NO.4       274      266      8      164.93552       160.28571     102.77820    103.50000       0.7218    -0.00934     0.02853    -8.86252
 AT EXAM NO.6       261      256      5      174.20294       124.30000     103.15625     95.60000      -7.5563    -0.05208     0.03524    -2.95229

 SYSTOLIC

 AT EXAM NO.2       257      255      2      529.64882       450.00000     134.80000    137.00000       2.2000    -0.01695     0.03289   -17.68855
 AT EXAM NO.4       274      266      8      403.03413       827.69643     132.82707    151.62500      18.7979     0.04682     0.01806    -8.86252
 AT EXAM NO.6       261      256      5      468.48229       446.00000     136.75781    132.00000      -4.7578    -0.01582     0.02177    -2.95229

 CHOLSTRL

 AT EXAM NO.2       257      255      2     1505.71941       180.50000     229.92941    255.50000      25.5706     0.01573     0.01845   -17.68855
 AT EXAM NO.4       274      266      8     1248.70813      1569.92857     236.87218    238.75000       1.8778    -0.00142     0.01022    -8.86252
 AT EXAM NO.6       261      256      5     1939.32396     17067.20000     243.96094    286.80000      42.8391     0.02381     0.01004    -2.95229


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.61
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.76
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.30
                                                                                                              * DISCRIMINANT COEFFICIENT
                                                   TABLE 23-A-11.5
                                            THIS ANALYSIS IS FOR CHD DEATH
                                           MEN  54-57  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 703        NUMBER OF CASES (N1) =  25        TOTAL NUMBER BEFORE EXCLUSIONS =  885

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT         STANDARD ERROR       T
                 (CASES)     (NON-CASES)                             OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW      107.76000      103.46088     4.29912        2.71       12.82117         0.01338799           0.01626573        0.823
2  SYSTOLIC    155.12000      137.99858    17.12142       13.73       22.70375         0.03085658           0.00919248        3.357
3  CHOLSTRL    246.64000      235.23755    11.40245        2.08       38.82154         0.00596632           0.00526278        1.134
 INTERCEPT                                                                           -10.71022758
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   15.79


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           160.50186      62.53853      35.51405                           FRW       287.85528     45.24959   -112.94371
SYSTOLIC         62.53853     514.73416      65.95596                         SYSTOLIC     45.24959    538.56529     23.90413
CHOLSTRL         35.51405      65.95596    1509.18951                         CHOLSTRL   -112.94371     23.90413   1441.01892


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
  FRW           164.38244      62.01172      30.99041                           FRW         1.00000      0.21303      0.06226
SYSTOLIC         62.01172     515.46031      64.67460                         SYSTOLIC      0.21303      1.00000      0.07338
CHOLSTRL         30.99041      64.67460    1507.11229                         CHOLSTRL      0.06226      0.07338      1.00000

                                                  SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     242     231    11     161.96989      415.47273    102.83983    99.54545    -3.2944   -0.02716    0.02391    -5.64130
AT EXAM NO.4     233     228     5     151.39014       66.30000    104.62281   121.60000    16.9772    0.08528    0.03818   -22.75270
AT EXAM NO.6     253     244     9     167.62415      239.11111    102.96311   110.11111     7.1480    0.02817    0.02683   -11.71068

SYSTOLIC

AT EXAM NO.2     242     231    11     621.70902      372.36364    140.82684   147.81818     6.9913    0.01320    0.01265    -5.64130
AT EXAM NO.4     233     228     5     477.01714     1257.20000    137.47807   173.20000    35.7219    0.06101    0.02120   -22.75270
AT EXAM NO.6     253     244     9     448.71583      387.00000    135.80738   154.00000    18.1926    0.03660    0.01658   -11.71068

CHOLSTRL

AT EXAM NO.2     242     231    11    1651.02951      959.47273    225.96970   248.54545    22.5758    0.01450    0.00769    -5.64130
AT EXAM NO.4     233     228     5    1574.54432     1356.70000    236.37719   240.20000     3.8228   -0.00080    0.01146   -22.75270
AT EXAM NO.6     253     244     9    1313.88604     2085.11111    242.94672   247.88889     4.9422    0.00043    0.00936   -11.71068


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.35
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    17.73
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.55

                                                                                                   * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-11.6
                                  THIS ANALYSIS IS FOR CHD DEATH
                                 MEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 611          NUMBER OF CASES (N1) =  23          TOTAL NUMBER BEFORE EXCLUSIONS =  782

                 AVG X(1)       AVG X(0)     DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)      (NON-CASES)                             OF VARIABLE       COEFFICIENT         OF COEFFICIENT
 1      FRW     106.91304      102.16203    4.75101        3.23        12.44772         0.02435230          0.01720997        1.415
 2  SYSTOLIC    155.26087      139.25859   16.00228        9.18        24.86370         0.02462740          0.00867096        2.840
 3  CHOLSTRL    234.73913      234.64321    0.09592        0.00        41.37513        -0.00174092          0.00516701       -0.337
   INTERCEPT                                                                           -9.04337611
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   11.30


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            153.73934      41.84172        6.58155                       FRW        191.62000      -7.21333      56.91333
 SYSTOLIC           41.84172     598.70562       93.79513                    SYSTOLIC      -7.21333    1210.94778     816.68556
 CHOLSTRL            6.58155      93.79513     1706.70228                    CHOLSTRL      56.91333     816.68556    1869.95611


 POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
    FRW            154.94573      40.27946        8.18447                       FRW         1.00000       0.13015       0.01589
 SYSTOLIC           40.27946     618.20378      116.81712                    SYSTOLIC       0.13015       1.00000       0.11355
 CHOLSTRL            8.18447     116.81712     1711.90145                    CHOLSTRL       0.01589       0.11355       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2     194      190     4     184.71571      226.00000     100.17368     94.00000     -6.1737   -0.03315    0.03758     0.28428
 AT EXAM NO.4     223      213    10     139.66955      210.04444     102.92958    112.60000      9.6704    0.06158    0.02725   -14.67439
 AT EXAM NO.6     217      208     9     139.86622      158.00000     103.19231    106.33333      3.1410    0.01252    0.02897    -8.62334

 SYSTOLIC

 AT EXAM NO.2     194      190     4     728.39903      326.33333     140.32105    138.50000     -1.8211    0.00116    0.01921     0.28428
 AT EXAM NO.4     223      213    10     537.84392     1064.93333     137.79343    156.60000     18.8066    0.03027    0.01377   -14.67439
 AT EXAM NO.6     217      208     9     542.62170     1706.94444     139.78846    161.22222     21.4338    0.03744    0.01439    -8.62334

 CHOLSTRL

 AT EXAM NO.2     194      190     4    1806.53815     1983.33333     232.13158    223.00000     -9.1316   -0.00478    0.01199     0.28428
 AT EXAM NO.4     223      213    10    1799.85517     2936.76667     231.88732    237.90000      6.0127    0.00223    0.00754   -14.67439
 AT EXAM NO.6     217      208     9    1520.14483      627.27778     239.75962    236.44444     -3.3152   -0.00615    0.00896    -8.62334


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.96
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    11.25
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.44
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A-11.7
                                        THIS ANALYSIS IS FOR CHD DEATH
                                      MEN  62-65  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 405          NUMBER OF CASES (N1) =  21          TOTAL NUMBER BEFORE EXCLUSIONS =  571

                AVG X(1)       AVG X(0)      DIFF          CHI SQ.         STND DEV           DISCRIMINANT          STANDARD ERROR         T
                (CASES)      (NON-CASES)                                  OF VARIABLE         COEFFICIENT           OF COEFFICIENT
1     FRW       97.61905      101.02222    -3.40317          1.26         13.54589           -0.02891727            0.01693420        -1.708
2  SYSTOLIC    152.52381      139.53580    12.98801          5.13         25.62476            0.02270125            0.00894593         2.538
3  CHOLSTRL    247.38095      234.20494    13.17601          2.05         41.11723            0.00781985            0.00545018         1.435
 INTERCEPT                                                                                 -5.28530544
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     9.91


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                            VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             185.29788       85.17790       20.27881                             FRW      143.14198    -156.61728     157.27778
SYSTOLIC            85.17790      647.95563       47.58202                          SYSTOLIC   -156.61728     850.31790    -331.08333
CHOLSTRL            20.27881       47.58202     1606.88751                          CHOLSTRL    157.27778    -331.08333    3560.80556


POOLED VARIANCE-COVARIANCE MATRIX                                                   POOLED CORRELATION MATRIX
   FRW             183.49120       74.81525       26.15020                             FRW        1.00000       0.21554       0.04695
SYSTOLIC            74.81525      656.62830       31.35351                          SYSTOLIC     0.21554       1.00000       0.02976
CHOLSTRL            26.15020       31.35351     1690.62685                          CHOLSTRL     0.04695       0.02976       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2         54       50     4      271.73714      145.66667     102.76000     99.50000      -3.2600    -0.02336     0.03291    -9.30037
AT EXAM NO.4        179      170     9      182.60132      228.69444      99.04706     97.77778      -1.2693    -0.01954     0.02554    -4.47914
AT EXAM NO.6        193      185     8      164.75546       44.28571     102.36757     96.50000      -5.8676    -0.04958     0.02981    -5.03811

SYSTOLIC

AT EXAM NO.2         54       50     4      970.36286      204.00000     144.62000    155.00000      10.3800     0.01183     0.01755    -9.30037
AT EXAM NO.4        179      170     9      655.94323     1371.77778     137.52353    161.44444      23.9209     0.03707     0.01323    -4.47914
AT EXAM NO.6        193      185     8      554.76075      531.35714     140.01081    141.25000       1.2392     0.00921     0.01593    -5.03811

CHOLSTRL

AT EXAM NO.2         54       50     4     1238.74327      432.33333     216.54000    253.50000      36.9600     0.03134     0.01512    -9.30037
AT EXAM NO.4        179      170     9     1625.98594     4820.25000     236.75294    223.00000     -13.7529    -0.00904     0.00815    -4.47914
AT EXAM NO.6        193      185     8     1687.38443     3462.21429     236.63784    271.75000      35.1122     0.02177     0.00869    -5.03811


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.03
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.85
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.18
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-A-11.8
                                   THIS ANALYSIS IS FOR CHD DEATH
                                 MEN  66-69  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 191        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)     AVG X(0)     DIFF        CHI SQ.     STND DEV       DISCRIMINANT     STANDARD ERROR      T
                (CASES)     (NON-CASES)                           OF VARIABLE    COEFFICIENT      OF COEFFICIENT
 1     FRW     101.50000    100.50262    0.99738        0.03      14.94437      -0.00892024       0.02488650       -0.358
 2  SYSTOLIC   161.50000    141.81152   19.68848        4.74      25.05358       0.03264225       0.01484125        2.199
 3  CHOLSTRL   242.00000    236.66492    5.33508        0.16      37.53862       0.00384005       0.00961595        0.399
  INTERCEPT                                                                     -8.14131037
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    5.02


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           227.01989     88.76155     11.64863                 FRW       107.23810     134.19048       27.23810
 SYSTOLIC         88.76155    614.73167     -4.65399               SYSTOLIC    134.19048    1035.61905      178.52381
 CHOLSTRL         11.64863     -4.65399   1412.63690               CHOLSTRL     27.23810     178.52381     1299.23810


 POOLED VARIANCE-COVARIANCE MATRIX                                 POOLED CORRELATION MATRIX
   FRW           223.33430     90.15937     12.12830                 FRW         1.00000       0.24080        0.02162
 SYSTOLIC         90.15937    627.68205      0.98225               SYSTOLIC      0.24080       1.00000        0.00104
 CHOLSTRL         12.12830      0.98225   1409.14771               CHOLSTRL      0.02162       0.00104        1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2      0        0     0       0.0            0.0            0.0         0.0          0.0     -0.02336     0.0         0.0
 AT EXAM NO.4     47       46     1     296.46377        0.0        103.26087   100.00000     -3.2609    -0.06655     0.06238   -46.65124
 AT EXAM NO.6    152      145     7     205.31868      107.23810     99.62759   101.71429      2.0867     0.00344     0.02786    -3.05121

 SYSTOLIC

 AT EXAM NO.2      0        0     0       0.0            0.0            0.0         0.0          0.0      0.01183     0.0         0.0
 AT EXAM NO.4     47       46     1     701.95362        0.0        145.04348   210.00000     64.9565     0.09132     0.04072   -46.65124
 AT EXAM NO.6    152      145     7     587.47481     1035.61905    140.78621   154.57143     13.7852     0.02163     0.01607    -3.05121

 CHOLSTRL

 AT EXAM NO.2      0        0     0       0.0            0.0            0.0         0.0          0.0      0.03134     0.0         0.0
 AT EXAM NO.4     47       46     1    1501.39130        0.0        218.82609   391.00000    172.1739     0.10946     0.02622   -46.65124
 AT EXAM NO.6    152      145     7    1384.90115     1299.23810    242.32414   220.71429    -21.6099    -0.01521     0.01042    -3.05121


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   24.46
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    4.23

                                                                                                  * DISCRIMINANT COEFFICIENT
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                                                 TABLE 23-A-12.5
                                   THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                                           MEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 716          NUMBER OF CASES (N1) =  12          TOTAL NUMBER BEFORE EXCLUSIONS =  885

               AVG X(1)        AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT         STANDARD ERROR       T
               (CASES)        (NON-CASES)                                OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1    FRW      99.75000       103.67318    -3.92318          1.09         12.91770          -0.04697383          0.02321258      -2.024
 2  SYSTOLIC  166.58333       138.11732    28.46601         18.72         22.60070           0.06541151          0.01330159       4.918
 3  CHOLSTRL  208.66667       236.08101   -27.41434          5.91         38.73068          -0.02088779          0.00755349      -2.765
  INTERCEPT                                                                                 -4.63155809
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   30.91


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          166.38867      68.64365      26.44362                            FRW       204.75556     117.28889     265.35556
SYSTOLIC         68.64365     501.16276      79.97702                         SYSTOLIC     117.28889    1273.60000     165.02222
CHOLSTRL         26.44362      79.97702    1495.57758                         CHOLSTRL     265.35556     165.02222    1855.61111


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW          166.86693      69.25003      29.42174                            FRW         1.00000       0.23720       0.05881
SYSTOLIC         69.25003     510.79148      81.03714                         SYSTOLIC       0.23720       1.00000       0.09258
CHOLSTRL         29.42174      81.03714    1500.06553                         CHOLSTRL       0.05881       0.09258       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

    FRW

AT EXAM NO.2      242       237     5       172.57395      170.50000      102.78903     98.00000     -4.7890    -0.05478     0.03508   -10.30944
AT EXAM NO.4      233       231     2       156.55216       32.00000      104.99567    104.00000     -0.9957    -0.03388     0.05941    -0.84434
AT EXAM NO.6      253       248     5       169.63835      282.20000      103.28629     99.80000     -3.4863    -0.02948     0.03568    -1.69099

SYSTOLIC

AT EXAM NO.2      242       237     5       539.68272     2091.80000      140.14346    188.60000     48.4565     0.09268     0.01935   -10.30944
AT EXAM NO.4      233       231     2       516.01750        2.00000      138.06494    159.00000     20.9351     0.05347     0.03292    -0.84434
AT EXAM NO.6      253       248     5       450.52591      773.30000      136.22984    147.60000     11.3702     0.03287     0.02196    -1.69099

CHOLSTRL

AT EXAM NO.2      242       237     5      1606.03683     3319.30000      227.45148    205.40000    -22.0515    -0.01517     0.01122   -10.30944
AT EXAM NO.4      233       231     2      1547.14030      760.50000      236.94372    180.50000    -56.4437    -0.03980     0.01818    -0.84434
AT EXAM NO.6      253       248     5      1342.02370      665.70000      243.52419    223.20000    -20.3242    -0.01664     0.01249    -1.69099


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =   24.91
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    6.74
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    3.99

                                                                                                      * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-A-12.6
                          THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                              MEN  58-61  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 629       NUMBER OF CASES (N1) =   5       TOTAL NUMBER BEFORE EXCLUSIONS =  782

                AVG X(1)     AVG X(0)     DIFF        CHI SQ.     STND DEV       DISCRIMINANT       STANDARD ERROR      T
                 (CASES)   (NON-CASES)                           OF VARIABLE     COEFFICIENT        OF COEFFICIENT
1     FRW      103.40000    102.32591    1.07409        0.04      12.50921       -0.00505655          0.03624182      -0.140
2  SYSTOLIC    166.40000    139.62798   26.77202        5.72      24.93520        0.04585563          0.01830146       2.506
3  CHOLSTRL    218.40000    234.77583  -16.37583        0.78      41.34017       -0.01275481          0.01093422      -1.167
  INTERCEPT                                                                      -8.44102834
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    7.10


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           156.88341    43.59811       9.65661                         FRW        30.33333     -82.33333    -179.33333
SYSTOLIC          43.59811   613.06279     122.99215                      SYSTOLIC     -82.33333    3345.33333   -1053.66667
CHOLSTRL           9.65661   122.99215    1708.65404                      CHOLSTRL    -179.33333   -1053.66667    1820.33333

POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           156.48038    43.19706       9.05473                         FRW         1.00000      0.13849       0.01751
SYSTOLIC          43.19706   621.76428     119.24483                      SYSTOLIC      0.13849      1.00000       0.11568
CHOLSTRL           9.05473   119.24483    1709.00971                      CHOLSTRL      0.01751      0.11568       1.00000

                                                SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

    FRW

AT EXAM NO.2     194      193    1     185.87851        0.0        100.08290    93.00000      -7.0829   -0.03616    0.07448     3.31578
AT EXAM NO.4     223      220    3     147.24832      30.33333     103.29091   108.66667       5.3758    0.02115    0.04843   -15.77017
AT EXAM NO.6     217      216    1     140.80446        0.0        103.34722    98.00000      -5.3472   -0.05010    0.08530    -6.30925

SYSTOLIC

AT EXAM NO.2     194      193    1     722.08835        0.0        140.30570   136.00000      -4.3057    0.00251    0.03812     3.31578
AT EXAM NO.4     223      220    3     528.49946     3345.33333    138.10909   177.33333      39.2242    0.07033    0.02491   -15.77017
AT EXAM NO.6     217      216    1     601.83702        0.0        140.56944   164.00000      23.4306    0.04281    0.04181    -6.30925

CHOLSTRL

AT EXAM NO.2     194      193    1    1799.46503        0.0        232.18653   185.00000     -47.1865   -0.02605    0.02386     3.31578
AT EXAM NO.4     223      220    3    1846.34062     1820.33333    232.30455   221.33333     -10.9712   -0.00819    0.01355   -15.77017
AT EXAM NO.6     217      216    1    1487.30954        0.0        239.60648   243.00000       3.3935   -0.00224    0.02635    -6.30925


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.47
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.77
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.26

                                                                                               * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-A-12.7
                                    THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                                         MEN  62-65  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 419        NUMBER OF CASES (N1) =   7        TOTAL NUMBER BEFORE EXCLUSIONS =  571

               AVG X(1)       AVG X(0)     DIFF        CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR       T
                (CASES)     (NON-CASES)                            OF VARIABLE         COEFFICIENT         OF COEFFICIENT
1     FRW     102.57143      100.82578     1.74565        0.11       13.55309           0.01570330          0.02878299        0.546
2  SYSTOLIC   131.71429      140.31742    -8.60314        0.77       25.80537          -0.01452207          0.01511079       -0.961
3  CHOLSTRL   229.57143      234.94272    -5.37129        0.12       41.48689          -0.00307638          0.00919518       -0.335
  INTERCEPT                                                                            -2.99922177
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.16


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           183.04876      74.56590      25.93764                         FRW        236.73333       2.53333   -285.86667
SYSTOLIC          74.56590     654.98202      18.25146                      SYSTOLIC       2.53333    1575.73333    948.53333
CHOLSTRL          25.93764      18.25146    1717.97937                      CHOLSTRL    -285.86667     948.53333   1985.93333


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW           183.68634      73.71040      22.23450                         FRW          1.00000       0.21076      0.03954
SYSTOLIC          73.71040     665.91731      29.29994                      SYSTOLIC       0.21076       1.00000      0.02737
CHOLSTRL          22.23450      29.29994    1721.16172                      CHOLSTRL       0.03954       0.02737      1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     54       54     0     260.21663        0.0         102.51852      0.0        -102.5185   -0.31970    0.00858    36.55813
AT EXAM NO.4    179      175     4     186.57097       63.00000      98.90286   102.50000       3.5971    0.01961    0.03772    -2.89188
AT EXAM NO.6    193      190     3     158.16642      497.33333     102.11579   102.66667       0.5509    0.01738    0.04772    -2.76267

SYSTOLIC

AT EXAM NO.2     54       54     0     916.20440        0.0         145.38889      0.0        -145.3889   -0.10278    0.00458    36.55813
AT EXAM NO.4    179      175     4     687.07698     2385.33333     138.76571   137.00000      -1.7657   -0.00354    0.01915    -2.89188
AT EXAM NO.6    193      190     3     552.18145      361.33333     140.30526   124.66667     -15.6386   -0.03100    0.02575    -2.76267

CHOLSTRL

AT EXAM NO.2     54       54     0    1265.18553        0.0         219.27778      0.0        -219.2778   -0.15221    0.00381    36.55813
AT EXAM NO.4    179      175     4    1769.63054     1881.66667     236.48571   217.50000     -18.9857   -0.01046    0.01203    -2.89188
AT EXAM NO.6    193      190     3    1797.40142     2142.33333     237.97368   245.66667       7.6930    0.00389    0.01378    -2.76267


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 4379.09
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    1.08
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    1.55

                                                                                                   * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-A-13.3
                          THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS *
                                 MEN  46-49  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 861        NUMBER OF CASES (N1) =  12        TOTAL NUMBER BEFORE EXCLUSIONS = 1010

                 AVG X(1)     AVG X(0)     DIFF        CHI SQ.     STND DEV        DISCRIMINANT     STANDARD ERROR      T
                 (CASES)     (NON-CASES)                          OF VARIABLE      COEFFICIENT      OF COEFFICIENT
1      FRW      98.16667    102.94541   -4.77875        1.47       13.54310       -0.02594142        0.02229995      -1.163
2  SYSTOLIC    126.58333    131.67480   -5.09146        0.91       18.31598       -0.01308722        0.01634032      -0.801
3  CHOLSTRL    243.33333    237.30430    6.02904        0.26       40.73326        0.00618850        0.00732156       0.845
 INTERCEPT                                                                        -1.46189480
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.70


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           184.51122     53.69474    109.06430                         FRW         78.95370    -19.38889     64.75000
SYSTOLIC         53.69474    335.78611    108.76139                       SYSTOLIC     -19.38889    305.83333     95.38889
CHOLSTRL        109.06430    108.76139   1666.14637                       CHOLSTRL      64.75000     95.38889    996.80556


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW           183.41546     52.93609    108.60429                         FRW          1.00000      0.21340      0.19687
SYSTOLIC         52.93609    335.47518    108.62258                       SYSTOLIC      0.21340      1.00000      0.14559
CHOLSTRL        108.60429    108.62258   1659.19820                       CHOLSTRL      0.19687      0.14559      1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2    290      284    6      179.53619      122.66667     101.79225    99.33333     -2.4589   -0.01284    0.03161    -3.82393
AT EXAM NO.4    278      276    2      191.70513       24.50000     103.14855    98.50000     -4.6486    0.01423    0.05396     5.81652
AT EXAM NO.6    305      301    4      182.60990       24.25000     103.84718    96.25000     -7.5972   -0.05957    0.03918    -4.88294

SYSTOLIC

AT EXAM NO.2    290      284    6      309.26183      360.70000     131.05634   126.50000     -4.5563   -0.01726    0.02416    -3.82393
AT EXAM NO.4    278      276    2      391.33664        2.00000     133.31522   113.00000    -20.3152   -0.04317    0.03703     5.81652
AT EXAM NO.6    305      301    4      309.88602      315.66667     130.75415   133.50000      2.7458    0.01283    0.02941    -4.88294

CHOLSTRL

AT EXAM NO.2    290      284    6     1264.77500     1114.40000     229.78873   246.00000     16.2113    0.01463    0.01178    -3.82393
AT EXAM NO.4    278      276    2     1766.96174     2244.50000     238.54348   176.50000    -62.0435   -0.03306    0.01754     5.81652
AT EXAM NO.6    305      301    4     1952.35929      384.91667     243.25914   272.75000     29.4909    0.01871    0.01179    -4.88294


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.04
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.68
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.10
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                                     TABLE 23-A-13.4
                                        THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                             MEN  50-53  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 782        NUMBER OF CASES (N1) =  10        TOTAL NUMBER BEFORE EXCLUSIONS =  930

                 AVG X(1)       AVG X(0)      DIFF        CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR      T
                 (CASES)      (NON-CASES)                              OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW      104.20000      103.20716     0.99284          0.06      12.76977        -0.00776724          0.02572975       -0.302
2  SYSTOLIC     154.20000      134.68159    19.51841          8.06      21.60294         0.04757536          0.01532075        3.105
3  CHOLSTRL     218.70000      237.54731   -18.84731          2.14      40.50746        -0.01533070          0.00798336       -1.920
 INTERCEPT                                                                              -6.92830640
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   11.95


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            159.56933      70.33037      49.55257                     FRW        552.32143    -450.21429     828.42857
SYSTOLIC           70.33037     458.99865     142.80473                  SYSTOLIC   -450.21429    1322.28571      31.64286
CHOLSTRL           49.55257     142.80473    1633.77340                  CHOLSTRL    828.42857      31.64286    2428.82143


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW            163.06712      65.69447      56.48913                     FRW          1.00000       0.23814       0.10921
SYSTOLIC           65.69447     466.68695     141.81474                  SYSTOLIC      0.23814       1.00000       0.16206
CHOLSTRL           56.48913     141.81474    1640.85398                  CHOLSTRL      0.10921       0.16206       1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    257      255     2     150.54371      264.50000     103.91373     99.50000      -4.4137   -0.04750     0.06142    -4.91742
AT EXAM NO.4    274      270     4     160.57124      444.33333     102.67037    111.50000       8.8296    0.03583     0.04009   -16.10366
AT EXAM NO.6    261      257     4     167.47164      756.25000     103.07004     99.25000      -3.8200   -0.02258     0.03919    -2.15021

SYSTOLIC

AT EXAM NO.2    257      255     2     517.39920     3362.00000     134.73725    145.00000      10.2627    0.02709     0.03291    -4.91742
AT EXAM NO.4    274      270     4     393.24275     1790.33333     132.90000    165.50000      32.6000    0.07950     0.02549   -16.10366
AT EXAM NO.6    261      257     4     470.14941      174.33333     136.49805    147.50000      11.0019    0.03806     0.02438    -2.15021

CHOLSTRL

AT EXAM NO.2    257      255     2    1509.91286      288.00000     230.06667    238.00000       7.9333    0.00475     0.01843    -4.91742
AT EXAM NO.4    274      270     4    1243.90446     2253.58333     237.10000    225.25000     -11.8500   -0.01647     0.01437   -16.10366
AT EXAM NO.6    261      257     4    2166.33326     3317.66667     245.43969    202.50000     -42.9397   -0.02292     0.01117    -2.15021


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.04
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    12.23
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.86

                                                                                                      * DISCRIMINANT COEFFICIENT
                                        TABLE 23-A-13.5
                          THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                               MEN  54-57  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 716        NUMBER OF CASES (N1) =  12        TOTAL NUMBER BEFORE EXCLUSIONS =  885

                  AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT      STANDARD ERROR      T
                  (CASES)      (NON-CASES)                           OF VARIABLE     COEFFICIENT       OF COEFFICIENT
1     FRW         92.83333     103.78911  -10.95577        8.60      12.83802       -0.05905641        0.02325878       -2.539
2  SYSTOLIC      127.66667     138.76955  -11.10289        2.77      22.92232       -0.01170495        0.01304243       -0.897
3  CHOLSTRL      207.41667     236.10196  -28.68529        6.48      38.72430       -0.01758309        0.00754229       -2.331
 INTERCEPT                                                                           7.17566025
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    15.12


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW              163.58317     65.18158      28.78981                 FRW        262.38519     23.83704   -157.01481
SYSTOLIC            65.18158    527.39421      64.32861               SYSTOLIC      23.83704    370.05185     76.51481
CHOLSTRL            28.78981     64.32861    1504.92066               CHOLSTRL    -157.01481     76.51481   1075.80185


POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
  FRW              164.81477     64.66621      26.47368                 FRW          1.00000      0.21975      0.05325
SYSTOLIC            64.66621    525.43288      64.48052               SYSTOLIC       0.21975      1.00000      0.07264
CHOLSTRL            26.47368     64.48052    1499.57153               CHOLSTRL       0.05325      0.07264      1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      242      237    5       168.17732      225.70000      102.97468     89.20000    -13.7747    -0.07062     0.03520    10.22841
AT EXAM NO.4      233      230    3       152.40144      562.33333      105.01739    102.66667     -2.3507    -0.02225     0.04860     1.93262
AT EXAM NO.6      253      249    4       169.53637      111.33333      103.42972     90.00000    -13.4297    -0.07160     0.04001     6.08200

SYSTOLIC

AT EXAM NO.2      242      237    5       612.48734      241.20000      141.53165    122.80000    -18.7316    -0.02478     0.01856    10.22841
AT EXAM NO.4      233      230    3       520.18950      201.33333      138.20435    141.33333      3.1290     0.01413     0.02681     1.93262
AT EXAM NO.6      253      249    4       453.07122      654.33333      136.66265    123.50000    -13.1627    -0.01778     0.02442     6.08200

CHOLSTRL

AT EXAM NO.2      242      237    5      1636.39884      716.70000      227.69620    193.80000    -33.8962    -0.01910     0.01125    10.22841
AT EXAM NO.4      233      230    3      1553.42350     1064.33333      236.99130    195.66667    -41.3246    -0.02744     0.01484     1.93262
AT EXAM NO.6      253      249    4      1335.01742     1562.25000      243.28112    233.25000    -10.0311    -0.00409     0.01390     6.08200


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    10.21
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.64
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.87

                                                                                                      * DISCRIMINANT COEFFICIENT
                                        TABLE 23-A-13.6
                            THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                 MEN  58-61  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 613        NUMBER OF CASES (N1) =  21        TOTAL NUMBER BEFORE EXCLUSIONS =  782

             AVG X(1)      AVG X(0)     DIFF        CHI SQ.     STND DEV      DISCRIMINANT       STANDARD ERROR      T
             (CASES)      (NON-CASES)                          OF VARIABLE    COEFFICIENT        OF COEFFICIENT
1     FRW    99.90476     102.41762   -2.51286       0.82       12.50454     -0.02019437         0.01793086       -1.126
2 SYSTOLIC  147.71429     139.56933    8.14495       2.15       25.05649      0.01414010         0.00900469        1.570
3 CHOLSTRL  238.47619     234.51550    3.96069       0.19       41.35466      0.00145330         0.00540088        0.269
 INTERCEPT                                                                  -3.70576518
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.49


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW            156.24398     47.92304     11.12594                        FRW      160.41540    -64.75884    -68.81692
SYSTOLIC          47.92304    628.42647    103.30680                     SYSTOLIC    -64.75884    607.53998    579.22601
CHOLSTRL          11.12594    103.30680   1712.28669                     CHOLSTRL    -68.81692    579.22601   1639.75884


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
  FRW            156.36355     44.69330      8.83459                        FRW        1.00000      0.14264      0.01708
SYSTOLIC          44.69330    627.82781    116.94779                     SYSTOLIC     0.14264      1.00000      0.11286
CHOLSTRL           8.83459    116.94779   1710.20786                     CHOLSTRL     0.01708      0.11286      1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    194     188     6     183.49263      273.60000     100.14362    97.00000      -3.1436   -0.02223    0.03083    -3.68566
AT EXAM NO.4    223     219     4     147.98316       39.58333     103.32877   105.25000       1.9212    0.00956    0.04202    -9.19122
AT EXAM NO.6    217     206    11     140.17258      140.07273     103.52427    99.54545      -3.9788   -0.03254    0.02641    -0.64113

SYSTOLIC

AT EXAM NO.2    194     188     6     718.30251      733.86667     139.95213   150.66667      10.7145    0.01673    0.01581    -3.68566
AT EXAM NO.4    223     219     4     573.40706      592.25000     138.50685   145.75000       7.2432    0.01113    0.02125    -9.19122
AT EXAM NO.6    217     206    11     604.95041      548.96364     140.34951   146.81818       6.4687    0.01400    0.01291    -0.64113

CHOLSTRL

AT EXAM NO.2    194     188     6    1826.07586     1242.00000     231.87766   234.00000       2.1223    0.00000    0.00984    -3.68566
AT EXAM NO.4    223     219     4    1851.28595     1040.25000     231.78995   252.25000      20.4600    0.01078    0.01178    -9.19122
AT EXAM NO.6    217     206    11    1460.67490     2018.49091     239.82039   235.90909      -3.9113   -0.00418    0.00814    -0.64113


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.45
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.26
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.47
                                                                                                * DISCRIMINANT COEFFICIENT
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                                                              TABLE 23-A-13.7
                                                THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                                     MEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 411          NUMBER OF CASES (N1) =  15          TOTAL NUMBER BEFORE EXCLUSIONS =  571

                     AVG X(1)        AVG X(0)       DIFF           CHI SQ.         STND DEV          DISCRIMINANT          STANDARD ERROR        T
                     (CASES)        (NON-CASES)                                  OF VARIABLE         COEFFICIENT           OF COEFFICIENT
 1      FRW         96.40000        101.01703    -4.61703            1.68         13.54205          -0.02407455            0.01985865        -1.212
 2  SYSTOLIC       138.40000        140.24088    -1.84088            0.07         25.85741           0.00037560            0.01039779         0.036
 3  CHOLSTRL       214.40000        235.60097   -21.20097            3.80         41.35505          -0.01213616            0.00636112        -1.908
  INTERCEPT                                                                                          1.74413517
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.32


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             183.63179      71.52786        15.27135                           FRW        175.07292      131.18750      142.84375
 SYSTOLIC            71.52786     672.25394        29.00393                        SYSTOLIC      131.18750      544.55833      -37.42083
 CHOLSTRL            15.27135      29.00393      1720.65858                        CHOLSTRL      142.84375      -37.42083     1356.00625

 POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
    FRW             183.38725      73.23242        18.91628                           FRW          1.00000        0.20914        0.03378
 SYSTOLIC            73.23242     668.60549        27.10608                        SYSTOLIC        0.20914        1.00000        0.02535
 CHOLSTRL            18.91628      27.10608      1710.23995                        CHOLSTRL        0.03378        0.02535        1.00000

                                                        SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1     NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B   INTERCEPT

   FRW

 AT EXAM NO.2        54       52      2       257.09201       450.00000    102.92308     92.00000     -10.9231    -0.03854     0.04575      3.04642
 AT EXAM NO.4       179      171      8       186.03041       142.41071     99.12865     95.87500      -3.2537    -0.01985     0.02700      0.11682
 AT EXAM NO.6       193      188      5       161.41663       163.50000    102.20745     99.00000      -3.2074    -0.01114     0.03716      2.57868

 SYSTOLIC

 AT EXAM NO.2        54       52      2       908.38725      2048.00000    145.75000    136.00000      -9.7500    -0.00527     0.02425      3.04642
 AT EXAM NO.4       179      171      8       722.30967       558.21429    138.65497    140.25000      -1.5950     0.00420     0.01370      0.11682
 AT EXAM NO.6       193      188      5       562.34873       144.80000    140.15957    136.40000      -3.7596    -0.00510     0.01998      2.57868

 CHOLSTRL

 AT EXAM NO.2        54       52      2      1277.91667      1568.00000    219.75000    207.00000     -12.7500    -0.00846     0.02020      3.04642
 AT EXAM NO.4       179      171      8      1807.00000       911.26786    236.66667    223.12500     -13.5417    -0.00796     0.00861      0.11682
 AT EXAM NO.6       193      188      5      1762.91418      2081.30000    239.01596    203.40000     -35.6160    -0.01980     0.01082      2.57868


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.12
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.37
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.70

                                                                                                                    * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-A-13.8
                                 THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                     MEN  66-69  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 188        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS =  294

                AVG X(1)      AVG X(0)     DIFF       CHI SQ.       STND DEV        DISCRIMINANT         STANDARD ERROR       T
                 (CASES)     (NON-CASES)                           OF VARIABLE      COEFFICIENT          OF COEFFICIENT
1     FRW       89.54545     101.18617  -11.64072       6.59        14.62303        -0.06758722           0.02193929       -3.081
2  SYSTOLIC    154.36364     141.91489   12.44874       2.52        25.29342         0.02998442           0.01269788        2.361
3  CHOLSTRL    226.72727     237.47340  -10.74613       0.76        39.62549        -0.00765691           0.00783745       -0.977
  INTERCEPT                                                                          0.94226518
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   12.91


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW            211.50434      90.66551    -15.66549                       FRW        261.95926      169.21481     367.87407
SYSTOLIC          90.66551     636.00031     43.20506                     SYSTOLIC     169.21481      717.39259     129.00741
CHOLSTRL         -15.66549      43.20506   1587.56340                     CHOLSTRL     367.87407      129.00741    1210.90370


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW            213.83303      94.29086      2.03634                       FRW          1.00000        0.25493       0.00351
SYSTOLIC          94.29086     639.75688     47.16517                     SYSTOLIC       0.25493        1.00000       0.04706
CHOLSTRL           2.03634      47.16517   1570.17911                     CHOLSTRL       0.00351        0.04706       1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

              NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     0        0.    0       0.0            0.0            0.0          0.0           0.0      -0.03854     0.0          0.0
AT EXAM NO.4    47       42     5     261.39373      282.70000      105.14286     86.80000    -18.3429    -0.07767     0.03091      5.19679
AT EXAM NO.6   152      146     6     197.39769      245.36667      100.04795     91.83333     -8.2146    -0.05982     0.03036     -4.60612

SYSTOLIC

AT EXAM NO.2     0        0     0       0.0            0.0            0.0          0.0           0.0      -0.00527     0.0          0.0
AT EXAM NO.4    47       42     5     847.16144      234.80000      146.76190    143.60000     -3.1619     0.01383     0.01846      5.19679
AT EXAM NO.6   152      146     6     576.29268     1103.46667      140.52055    163.33333     22.8128     0.04644     0.01759     -4.60612

CHOLSTRL

AT EXAM NO.2     0        0     0       0.0            0.0            0.0          0.0           0.0      -0.00846     0.0          0.0
AT EXAM NO.4    47       42     5    2197.50813     1441.20000      223.83333    211.20000    -12.6333    -0.00864     0.01069      5.19679
AT EXAM NO.6   152      146     6    1415.09627     1026.66667      241.39726    239.66667     -1.7306     0.00041     0.01114     -4.60612


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.66
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.93
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                                         TABLE 23-B-1.2
                                                  THIS ANALYSIS IS FOR TOTAL CHD
                                                WOMEN  42-45  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) =1106          NUMBER OF CASES (N1) =   9          TOTAL NUMBER BEFORE EXCLUSIONS = 1340

                  AVG X(1)         AVG X(0)      DIFF           CHI SQ.         STND DEV          DISCRIMINANT          STANDARD ERROR         T
                  (CASES)        (NON-CASES)                                   OF VARIABLE        COEFFICIENT           OF COEFFICIENT
1     FRW        103.88889         99.94304     3.94585            0.48         16.94135          -0.01143163            0.02070720          -0.552
2  SYSTOLIC      148.66667        125.83363    22.83303           12.32         19.43811           0.05870850            0.01804373           3.254
3  CHOLSTRL      270.88889        225.44665    45.44223           11.13         40.69261           0.02542469            0.00827483           3.073
  INTERCEPT                                                                                      -18.01355485
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   21.88


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            285.50636      96.71921       61.87884                                     FRW        563.31944       35.91667       23.04167
SYSTOLIC           96.71921     372.16637       77.89426                                  SYSTOLIC       35.91667     1420.83333    -1579.08333
CHOLSTRL           61.87884      77.89426     1596.32391                                  CHOLSTRL       23.04167    -1579.08333    12605.87500


POOLED VARIANCE-COVARIANCE MATRIX                                                         POOLED CORRELATION MATRIX
   FRW            287.00941      96.39025       61.66872                                     FRW          1.00000        0.29271        0.08945
SYSTOLIC           96.39025     377.83995       68.92955                                  SYSTOLIC        0.29271        1.00000        0.08714
CHOLSTRL           61.66872      68.92955     1655.88866                                  CHOLSTRL        0.08945        0.08714        1.00000


                                                        SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     364      361    3      256.66502     1196.33333      99.65651    111.66667     12.0102     0.04199     0.03765   -12.28974
AT EXAM NO.4     379      377    2      317.60448      112.50000     100.91512     96.50000     -4.4151    -0.04944     0.04242   -36.86923
AT EXAM NO.6     372      368    4      280.91233      291.58333      99.22826    101.75000      2.5217    -0.02451     0.03106   -19.05512

SYSTOLIC

AT EXAM NO.2     364      361    3      450.96020      364.00000     127.41551    130.00000      2.5845    -0.00544     0.02845   -12.28974
AT EXAM NO.4     379      377    2      364.21212       50.00000     125.72149    149.00000     23.2785     0.07568     0.03960   -36.86923
AT EXAM NO.6     372      368    4      303.02473     2582.33333     124.39674    162.50000     38.1033     0.12624     0.02933   -19.05512

CHOLSTRL

AT EXAM NO.2     364      361    3     1442.30160     5983.00000     220.78670    248.00000     27.2133     0.01605     0.01533   -12.28974
AT EXAM NO.4     379      377    2     1577.83783    57460.50000     225.55703    375.50000    149.9430     0.08690     0.01708   -36.86923
AT EXAM NO.6     372      368    4     1766.34788     2069.58333     229.90489    235.75000      5.8451    -0.00478     0.01214   -19.05512


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.76
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    29.86
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =

                                                                                                             * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-B-1.3
                                  THIS ANALYSIS IS FOR TOTAL CHD
                                WOMEN  46-49  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) =1010        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS = 1249

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.     STND DEV        DISCRIMINANT      STANDARD ERROR     T
                (CASES)     (NON-CASES)                           OF VARIABLE      COEFFICIENT       OF COEFFICIENT
 1     FRW     119.87500     102.20594   17.66906        8.11      17.48044         0.06042641         0.02134002      2.832
 2  SYSTOLIC   134.00000     131.36337    2.63663        0.12      21.81696        -0.01368531         0.01719597     -0.796
 3  CHOLSTRL   276.00000     239.43069   36.56931        5.22      45.07542         0.01742693         0.00793531      2.196
  INTERCEPT                                                                       -14.22343817
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   13.25



VARIANCE-COVARIANCE MATRIX FOR NON-CASES                            VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           303.85100     116.11740      41.22925                  FRW       650.90000     296.00000    1058.50000
SYSTOLIC         116.11740     477.17828     118.66378              SYSTOLIC      296.00000     234.60000     262.20000
CHOLSTRL          41.22925     118.66378    2023.50752              CHOLSTRL     1058.50000     262.20000    3700.60000


POOLED VARIANCE-COVARIANCE MATRIX                                   POOLED CORRELATION MATRIX
   FRW           305.56567     117.00615      46.25529                  FRW         1.00000       0.30680       0.05870
SYSTOLIC         117.00615     475.97977     119.37295              SYSTOLIC        0.30680       1.00000       0.12139
CHOLSTRL          46.25529     119.37295    2031.79355              CHOLSTRL        0.05870       0.12139       1.00000


                                           SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     313     309     4     292.99674      196.66667    104.00324   119.00000     14.9968    0.06094    0.03147   -16.37925
AT EXAM NO.4     337     335     2     265.88108     1152.00000    101.07164   130.00000     28.9284    0.11241    0.04459   -16.93059
AT EXAM NO.6     368     366     2     347.75528     1512.50000    101.72678   111.50000      9.7732    0.02147    0.04013    -9.75480

SYSTOLIC

AT EXAM NO.2     313     309     4     504.91489       94.33333    135.29126   132.50000     -2.7913   -0.02774    0.02410   -16.37925
AT EXAM NO.4     337     335     2     489.74800      242.00000    129.65373   131.00000      1.3463   -0.01795    0.03321   -16.93059
AT EXAM NO.6     368     366     2     442.27098      648.00000    129.61202   140.00000     10.3880    0.01718    0.03606    -9.75480

CHOLSTRL

AT EXAM NO.2     313     309     4    2063.09692     4422.00000    232.84790   302.00000     69.1521    0.03348    0.01106   -16.37925
AT EXAM NO.4     337     335     2    1753.86737     1624.50000    238.97015   251.50000     12.5299    0.00474    0.01711   -16.93059
AT EXAM NO.6     368     366     2    2236.83979     3612.50000    245.40984   248.50000      3.0902   -0.00024    0.01514    -9.75480


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =   13.06
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    6.53
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    0.77
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-B-1.4
                                        THIS ANALYSIS IS FOR TOTAL CHD
                                      WOMEN  50-53  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 912        NUMBER OF CASES (N1) =  10        TOTAL NUMBER BEFORE EXCLUSIONS = 1151

                  AVG X(1)        AVG X(0)     DIFF         CHI SQ.       STND DEV         DISCRIMINANT        STANDARD ERROR       T
                   (CASES)      (NON-CASES)                              OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW        99.40000       104.07346    -4.67346          0.71       17.44466         -0.02618318          0.01908200        -1.372
2  SYSTOLIC     151.20000       138.35417    12.84583          2.84       23.95675          0.02516170          0.01400243         1.797
3  CHOLSTRL     277.10000       250.83114    26.26886          3.72       42.85120          0.01275419          0.00748009         1.705
 INTERCEPT                                                                                 -8.85876773
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     7.72


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          305.15235      123.44148        8.20632                         FRW        209.29167     131.00000      746.72917
SYSTOLIC        123.44148      570.37833      127.94000                      SYSTOLIC      131.00000     977.00000      190.25000
CHOLSTRL          8.20632      127.94000     1782.80335                      CHOLSTRL      746.72917     190.25000     7906.26042


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW          304.31605      123.50743       14.64927                         FRW          1.00000       0.29553        0.01960
SYSTOLIC        123.50743      573.92574      128.48360                      SYSTOLIC        0.29553       1.00000        0.12516
CHOLSTRL         14.64927      128.48360     1836.22500                      CHOLSTRL        0.01960       0.12516        1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                NO + N1     NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)      AVG X(1)        DIFF        BETA*     STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     312       306     6      363.00492      235.46667     106.83333     97.33333      -9.5000     -0.03194     0.02239     -8.06524
AT EXAM NO.4     291       287     4      312.38274      165.66667     105.07317    102.50000      -2.5732     -0.01554     0.03081     -6.35663
AT EXAM NO.6     319       319     0      243.16202        0.0         100.52665      0.0        -100.5266     -0.31353     0.00374     39.32087

SYSTOLIC

AT EXAM NO.2     312       306     6      672.95631      332.80000     143.85621    156.00000      12.1438      0.01829     0.01675     -8.06524
AT EXAM NO.4     291       287     4      569.24476     2050.66667     138.00000    144.00000       6.0000      0.01410     0.02248     -6.35663
AT EXAM NO.6     319       319     0      473.01331        0.0         133.39498      0.0        -133.3950     -0.18075     0.00270     39.32087

CHOLSTRL

AT EXAM NO.2     312       306     6     1850.15013    11869.06667     245.97386    285.33333      39.3595      0.01751     0.00936     -8.06524
AT EXAM NO.4     291       287     4     1930.10399     1301.58333     251.50523    264.75000      13.2448      0.00662     0.01149     -6.35663
AT EXAM NO.6     319       319     0     1585.73179        0.0         254.88401      0.0        -254.8840     -0.13553     0.00142     39.32087


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.15
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.84
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                              * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-1.5
                                        THIS ANALYSIS IS FOR TOTAL CHD
                                       WOMEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 816         NUMBER OF CASES (N1) =  25         TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)       AVG X(0)      DIFF          CHI SQ.        STND DEV          DISCRIMINANT        STANDARD ERROR       T
                 (CASES)      (NON-CASES)                                OF VARIABLE        COEFFICIENT         OF COEFFICIENT
1      FRW     110.40000      105.94240    4.45760           1.53        17.72143           0.00303047          0.01209672        0.251
2  SYSTOLIC    159.16000      142.89461   16.26539           9.72        25.69095           0.02292818          0.00838308        2.735
3  CHOLSTRL    275.00000      260.13848   14.86152           2.57        45.67048           0.00577234          0.00446900        1.292
  INTERCEPT                                                                                -8.82063032
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    11.45


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            314.20386      148.93712      29.96652                             FRW       308.33045     39.59091     -74.55916
SYSTOLIC          148.93712      664.04772     117.61187                          SYSTOLIC      39.59091    511.36364     188.00000
CHOLSTRL           29.96652      117.61187    2060.02284                          CHOLSTRL     -74.55916    188.00000    3038.11544


POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW            314.04911      146.05614      27.21255                             FRW         1.00000      0.32080       0.03362
SYSTOLIC          146.05614      660.02491     119.46641                          SYSTOLIC       0.32080      1.00000       0.10182
CHOLSTRL           27.21255      119.46641    2085.79294                          CHOLSTRL       0.03362      0.10182       1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    283      274      9      296.17402      504.19444     107.18613    116.22222       9.0361     0.01833     0.02025    -8.41964
AT EXAM NO.4    278      269      9      328.99537      172.25000     106.45725    108.33333       1.8761     0.00309     0.01978    -9.10661
AT EXAM NO.6    280      273      7      317.72600      228.61905     104.18681    105.57143       1.3846    -0.01634     0.02344    -9.68509

SYSTOLIC

AT EXAM NO.2    283      274      9      745.26458      753.50000     148.36131    171.00000      22.6387     0.02792     0.01292    -8.41964
AT EXAM NO.4    278      269      9      650.84492      423.50000     142.39777    149.00000       6.6022     0.00442     0.01423    -9.10661
AT EXAM NO.6    280      273      7      595.54091      305.66667     137.89744    157.00000      19.1026     0.03599     0.01716    -9.68509

CHOLSTRL

AT EXAM NO.2    283      274      9     2155.62937     1315.36111     254.93431    244.88889     -10.0454    -0.00601     0.00736    -8.41964
AT EXAM NO.4    278      269      9     2075.00657     4901.52778     260.02974    297.55556      37.5258     0.01698     0.00740    -9.10661
AT EXAM NO.6    280      273      7     1949.30142     2850.57143     265.46886    284.71429      19.2454     0.00883     0.00866    -9.68509


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.48
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.85
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.70
                                                                                                               * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-1.6
                                        THIS ANALYSIS IS FOR TOTAL CHD
                                      WOMEN  58-61  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 699         NUMBER OF CASES (N1) =  36         TOTAL NUMBER BEFORE EXCLUSIONS =  985

                 AVG X(1)        AVG X(0)       DIFF          CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR        T
                 (CASES)        (NON-CASES)                                OF VARIABLE        COEFFICIENT         OF COEFFICIENT
1      FRW     112.75000       106.09585     6.65415         4.49       18.38202          0.00598831          0.00972375         0.616
2   SYSTOLIC   170.83333       147.22604    23.60730        27.69       26.25181          0.03310178          0.00681389         4.858
3   CHOLSTRL   263.69444       263.16023     0.53422         0.00       44.82771         -0.00065038          0.00382255        -0.170
  INTERCEPT                                                                               -8.71422790
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   28.11


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW          333.82122     144.48426     -33.81986                              FRW        423.89826      30.90744       94.92507
SYSTOLIC       144.48426     655.42956      79.43583                            SYSTOLIC      30.90744    1400.50689     -334.77466
CHOLSTRL       -33.81986      79.43583    2007.49807                            CHOLSTRL      94.92507    -334.77466     2052.23581


POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
  FRW          337.89878     139.34293     -27.99190                              FRW          1.00000       0.28876       -0.03397
SYSTOLIC       139.34293     689.15734      60.68556                            SYSTOLIC       0.28876       1.00000        0.05157
CHOLSTRL       -27.99190      60.68556    2009.52324                            CHOLSTRL      -0.03397       0.05157        1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)          DIFF        BETA*      STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2   240     229    11       356.49877      383.49091       105.96507    111.09091       5.1258      0.00091       0.01698      -7.51967
AT EXAM NO.4   251     236    15       296.83915      518.55238       106.65678    118.46667      11.8099      0.02268       0.01588     -11.61097
AT EXAM NO.6   244     234    10       348.92983      321.55556       105.65812    106.00000       0.3419     -0.01152       0.01838      -5.95525

SYSTOLIC

AT EXAM NO.2   240     229    11       658.26557     2001.67273       150.28384    175.45455      25.1707      0.03460       0.01189      -7.51967
AT EXAM NO.4   251     236    15       735.02407     1376.88571       146.53814    174.80000      28.2619      0.03223       0.01006     -11.61097
AT EXAM NO.6   244     234    10       572.37667      769.28889       144.92735    159.80000      14.8726      0.02928       0.01455      -5.95525

CHOLSTRL

AT EXAM NO.2   240     229    11      2005.89673     1665.01818       258.55895    246.27273     -12.2862     -0.00495       0.00700      -7.51967
AT EXAM NO.4   251     236    15      1851.08402     2540.11429       262.74576    271.60000       8.8542      0.00420       0.00613     -11.61097
AT EXAM NO.6   244     234    10      2166.82170     1723.55556       268.08120    271.00000       2.9188     -0.00163       0.00712      -5.95525


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     9.83
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    17.15
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.09

                                                                                                        * DISCRIMINANT COEFFICIENT
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                                             TABLE 23-B-1.7
                                      THIS ANALYSIS IS FOR TOTAL CHD
                                    WOMEN  62-65  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 458        NUMBER OF CASES (N1) =  22        TOTAL NUMBER BEFORE EXCLUSIONS =  680

                 AVG X(1)      AVG X(0)      DIFF         CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR       T
                  (CASES)     (NON-CASES)                               OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW       106.18182     106.35808    -0.17626          0.00       17.34536         -0.00661593           0.01287764       -0.514
2  SYSTOLIC     161.81818     149.53930    12.27888          5.25       24.56092          0.02119870           0.00909297        2.331
3  CHOLSTRL     255.22727     264.69651    -9.46923          1.07       41.85663         -0.00513839           0.00521723       -0.985
 INTERCEPT                                                                               -4.29715483
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.51


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW             294.55597     70.87539      -2.53538                      FRW        451.86257     543.27485      496.04094
SYSTOLIC           70.87539    567.60994     -26.30145                    SYSTOLIC     543.27485    1456.45380      216.24795
CHOLSTRL           -2.53538    -26.30145    1705.93099                    CHOLSTRL     496.04094     216.24795     2854.66433


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW             300.86151     89.81124      17.44975                      FRW          1.00000       0.21082        0.02403
SYSTOLIC           89.81124    603.23870     -16.57901                    SYSTOLIC       0.21082       1.00000       -0.01613
CHOLSTRL           17.44975    -16.57901    1751.97726                    CHOLSTRL       0.02403      -0.01613        1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2      46       43     3     435.07087      346.33333      115.02326     92.33333     -22.6899    -0.05441     0.02941    -5.56301
AT EXAM NO.4     213      203    10     324.11496      404.27778      105.90640    106.50000       0.5936    -0.00863     0.01849    -6.89099
AT EXAM NO.6     221      212     9     238.28800      531.77778      105.03302    110.44444       5.4114     0.02125     0.02190    -3.49449

SYSTOLIC

AT EXAM NO.2      46       43     3     587.14729      121.33333      153.74419    154.66667       0.9225     0.02157     0.02709    -5.56301
AT EXAM NO.4     213      203    10     603.77974     2372.71111      150.80788    169.40000      18.5921     0.02887     0.01284    -6.89099
AT EXAM NO.6     221      212     9     529.09398      759.44444      147.47170    155.77778       8.3061     0.01369     0.01488    -3.49449

CHOLSTRL

AT EXAM NO.2      46       43     3    1264.54264     2149.00000      248.06977    272.00000      23.9302     0.02006     0.01753    -5.56301
AT EXAM NO.4     213      203    10    1565.28703     3050.71111      260.56158    261.60000       1.0384     0.00067     0.00803    -6.89099
AT EXAM NO.6     221      212     9    1928.43521     2810.52778      272.02830    242.55556     -29.4727    -0.01566     0.00770    -3.49449


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.86
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.07
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     5.96
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-B-1.8
                                        THIS ANALYSIS IS FOR TOTAL CHD
                                     WOMEN  66-69  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 217        NUMBER OF CASES (N1) =  19        TOTAL NUMBER BEFORE EXCLUSIONS =  352

                AVG X(1)        AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT         STANDARD ERROR         T
                (CASES)       (NON-CASES)                                OF VARIABLE      COEFFICIENT          OF COEFFICIENT
1     FRW      108.63158       105.23963     3.39195         0.59        18.44548          0.00246535           0.01355129          0.182
2  SYSTOLIC    170.26316       151.61751    18.64565         7.94        27.65770          0.02389454           0.00894862          2.670
3  CHOLSTRL    276.10526       267.38249     8.72277         0.70        43.52805          0.00461220           0.00555731          0.830
  INTERCEPT                                                                               -7.79802478
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     8.63


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            354.08845     146.90383    -119.11527                       FRW       165.03922    -102.98529     -30.75980
SYSTOLIC          146.90383     755.39357      33.84584                     SYSTOLIC   -102.98529     885.79044    -278.54044
CHOLSTRL         -119.11527      33.84584    1921.51029                     CHOLSTRL    -30.75980    -278.54044    1555.50613


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW            340.23570     128.59298    -112.64094                       FRW         1.00000       0.25206       -0.14029
SYSTOLIC          128.59298     764.94852      10.95546                     SYSTOLIC      0.25206       1.00000        0.00910
CHOLSTRL         -112.64094      10.95546    1894.69102                     CHOLSTRL     -0.14029       0.00910        1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2       0        0     0       0.0            0.0            0.0          0.0           0.0       -0.05441     0.0          0.0
AT EXAM NO.4      42       39     3     357.12551       50.33333     110.07692    118.66667      8.5897     0.01980     0.03657    -18.69451
AT EXAM NO.6     194      178    16     353.43642      180.33333     104.17978    106.75000      2.5702     0.00084     0.01465     -6.12349

SYSTOLIC

AT EXAM NO.2       0        0     0       0.0            0.0            0.0          0.0           0.0        0.02157     0.0          0.0
AT EXAM NO.4      42       39     3     642.03239     2028.00000     146.61538    178.00000     31.3846     0.03629     0.02465    -18.69451
AT EXAM NO.6     194      178    16     779.73100      733.49583     152.71348    168.81250     16.0990     0.02062     0.00962     -6.12349

CHOLSTRL

AT EXAM NO.2       0        0     0       0.0            0.0            0.0          0.0           0.0        0.02006     0.0          0.0
AT EXAM NO.4      42       39     3    1510.35762     1105.33333     256.56410    298.33333     41.7692     0.02874     0.01624    -18.69451
AT EXAM NO.6     194      178    16    2009.78036     1615.52917     269.75281    271.93750      2.1847     0.00115     0.00591     -6.12349


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.99
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.94
                                                                                                          * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-2.5
                               THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                  WOMEN   54-57   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 837        NUMBER OF CASES (N1) =    4        TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)      AVG X(0)      DIFF        CHI SQ.     STND DEV      DISCRIMINANT       STANDARD ERROR       T
                 (CASES)    (NON-CASES)                             OF VARIABLE   COEFFICIENT        OF COEFFICIENT
 1      FRW     109.00000     106.06093    2.93907        0.11      17.70996      -0.00167049        0.02989928      -0.056
 2  SYSTOLIC    158.75000     143.30466   15.44534        1.42      25.83259       0.02282666        0.02059505       1.108
 3  CHOLSTRL    271.25000     260.52927   10.72073        0.22      45.80618       0.00382192        0.01099849       0.347
  INTERCEPT                                                                       -9.62755982
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.55


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             313.77898     147.59715      24.02978                        FRW        200.00000     160.00000      390.00000
 SYSTOLIC           147.59715     667.96955     119.91147                     SYSTOLIC      160.00000     128.00000      312.00000
 CHOLSTRL            24.02978     119.91147    2099.80969                     CHOLSTRL      390.00000     312.00000      760.50000


 POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
    FRW             313.64272     147.61201      24.46807                        FRW          1.00000       0.32265        0.03016
 SYSTOLIC           147.61201     667.32288     120.14151                     SYSTOLIC        0.32265       1.00000        0.10153
 CHOLSTRL            24.46807     120.14151    2098.20573                     CHOLSTRL        0.03016       0.10153        1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                     NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)      AVG X(1)       DIFF       BETA*     STND ERR B   INTERCEPT

   FRW

 AT EXAM NO.2     283      281     2      303.88271      200.00000      107.56228      95.00000     -12.5623    -0.04951     0.04246     -0.92130
 AT EXAM NO.4     278      277     1      322.01298        0.0          106.42238     133.00000      26.5776     0.07013     0.05862    -26.80685
 AT EXAM NO.6     280      279     1      315.57170        0.0          104.18996     113.00000       8.8100     0.02226     0.06130    -10.49338

 SYSTOLIC

 AT EXAM NO.2     283      281     2      763.30968      128.00000      149.03203     156.00000       6.9680     0.01880     0.02687     -0.92130
 AT EXAM NO.4     278      277     1      641.81609        0.0          142.49458     175.00000      32.5054     0.02683     0.04210    -26.80685
 AT EXAM NO.6     280      279     1      597.90882        0.0          138.34050     148.00000       9.6595     0.00926     0.04457    -10.49338

 CHOLSTRL

 AT EXAM NO.2     283      281     2     2138.10125      760.50000      254.72242     239.50000     -15.2224    -0.00760     0.01540     -0.92130
 AT EXAM NO.4     278      277     1     2184.17752        0.0          260.99639     330.00000      69.0036     0.02886     0.02175    -26.80685
 AT EXAM NO.6     280      279     1     1977.48178        0.0          265.91398     276.00000      10.0860     0.00413     0.02261    -10.49338


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.72
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.71
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.33

                                                                                                 * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-8-2.6
                          THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                               WOMEN  58-61  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 728        NUMBER OF CASES (N1) =   7        TOTAL NUMBER BEFORE EXCLUSIONS =  985

                 AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR      T
                 (CASES)      (NON-CASES)                            OF VARIABLE      COEFFICIENT       OF COEFFICIENT
1     FRW      111.71429     106.37088     5.34341        0.58       18.43286        0.00961095         0.02160530      0.445
2  SYSTOLIC    160.00000     148.27060    11.72940        1.33       26.73190        0.01436022         0.01491140      0.963
3  CHOLSTRL    265.71429     263.16209     2.55220        0.02       44.67654        0.00094773         0.00852339      0.111
 INTERCEPT                                                                          -8.15642660
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    1.54


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          336.21168     148.26281     -29.62397                    FRW       984.79167   -184.91667     572.50000
SYSTOLIC        148.26281     712.59133      70.74450                 SYSTOLIC   -184.91667   1077.66667   -1229.00000
CHOLSTRL        -29.62397      70.74450    1989.20697                 CHOLSTRL    572.50000  -1229.00000    3226.00000

POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
   FRW          339.77042     146.43467     -26.32013                    FRW         1.00000      0.29718      -0.03196
SYSTOLIC        146.43467     714.59449      63.61284                 SYSTOLIC      0.29718      1.00000       0.05326
CHOLSTRL        -26.32013      63.61284    1995.99322                 CHOLSTRL     -0.03196      0.05326       1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     240      238    2      355.60274      242.00000    106.02521   127.00000     20.9748    0.04987    0.03918   -13.69298
AT EXAM NO.4     251      249    2      303.88917     3612.50000    107.37751   105.50000     -1.8775   -0.01474    0.04218     0.26370
AT EXAM NO.6     244      241    3      350.46293       42.33333    105.67220   105.66667     -0.0055   -0.00073    0.03305   -10.70506

SYSTOLIC

AT EXAM NO.2     240      238    2      729.50780     2738.00000    151.23950   175.00000     23.7605    0.02363    0.02693   -13.69298
AT EXAM NO.4     251      249    2      814.76266      882.00000    148.12450   161.00000     12.8755    0.02009    0.02632     0.26370
AT EXAM NO.6     244      241    3      590.30927      345.33333    145.48963   149.33333      3.8437   -0.00225    0.02595   -10.70506

CHOLSTRL

AT EXAM NO.2     240      238    2     1972.55670     7688.00000    258.11345   244.00000    -14.1134   -0.00299    0.01608   -13.69298
AT EXAM NO.4     251      249    2     1868.88535     2888.00000    263.68675   212.00000    -51.6867   -0.02785    0.01641     0.26370
AT EXAM NO.6     244      241    3     2129.98147     1164.00000    267.60581   316.00000     48.3942    0.02306    0.01290   -10.70506


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.27
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.28

                                                                                                 * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-2.7
                                THIS ANALYSIS IS FOR TOTAL MYOCARDIAL INFARCTION
                                   WOMEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 476        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS =  680

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT        STANDARD ERROR       T
                 (CASES)        (NON-CASES)                               OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW      113.50000      106.28992     7.21008          0.69       17.23316         0.00181092          0.02977581       0.061
2  SYSTOLIC     195.00000      149.72479    45.27521         13.80       24.27250         0.07681052          0.02114226       3.633
3  CHOLSTRL     275.75000      264.16597    11.58403          0.30       41.87395         0.00739082          0.01199411       0.616
  INTERCEPT                                                                             -20.21258889
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   14.19


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW             291.97647     75.56389        5.92480                        FRW      2664.50000   5037.00000   1314.00000
SYSTOLIC           75.56389    570.26889      -23.39877                      SYSTOLIC   5037.00000   9522.00000   2484.00000
CHOLSTRL            5.92480    -23.39877     1755.76449                      CHOLSTRL   1314.00000   2484.00000    648.00000


POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
  FRW             296.98179     86.03105        8.68445                        FRW         1.00000      0.20567      0.01203
SYSTOLIC           86.03105    589.15440      -18.10890                      SYSTOLIC    0.20567      1.00000     -0.01782
CHOLSTRL            8.68445    -18.10890     1753.42744                      CHOLSTRL    0.01203     -0.01782      1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     46       45     1     429.33636        0.0         114.40000     75.00000     -39.4000   -0.09888    0.05004   -12.07735
AT EXAM NO.4    213      211     2     315.54209     2664.50000     105.84360    115.50000       9.6564   -0.00763    0.04054   -19.96117
AT EXAM NO.6    221      220     1     241.78188        0.0         105.05909    148.00000      42.9409    0.16585    0.06529   -43.29745

SYSTOLIC

AT EXAM NO.2     46       45     1     564.46768        0.0         153.62222    162.00000       8.3778    0.05197    0.04615   -12.07735
AT EXAM NO.4    213      211     2     606.61372     9522.00000     151.02370    221.00000      69.9763    0.10966    0.02876   -19.96117
AT EXAM NO.6    221      220     1     536.58323        0.0         147.68182    176.00000      28.3182    0.03533    0.04380   -43.29745

CHOLSTRL

AT EXAM NO.2     46       45     1    1308.80000        0.0         248.80000    287.00000      38.2000    0.03521    0.02971   -12.07735
AT EXAM NO.4    213      211     2    1627.05926      648.00000     260.85308    235.00000     -25.8531   -0.01715    0.01764   -19.96117
AT EXAM NO.6    221      220     1    1968.98155        0.0         270.48636    346.00000      75.5136    0.03634    0.02260   -43.29745


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.55
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    15.93
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    10.82
                                                                                                * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-B-3.2
                             THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                 WOMEN  42-45  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) =1109        NUMBER OF CASES (N1) =    6        TOTAL NUMBER BEFORE EXCLUSIONS = 1340

                AVG X(1)       AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR        T
                 (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW       103.33333      99.95672    3.37662        0.24      16.93367        -0.01825416          0.02535175       -0.720
2  SYSTOLIC     152.66667     125.87376   26.79291       11.31      19.46006         0.07013774          0.02205314        3.180
3  CHOLSTRL     277.16667     225.53562   51.63105        9.60      40.71662         0.02890626          0.01011612        2.857
 INTERCEPT                                                                         -20.39773034
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    19.75


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            285.50792     98.20247      61.73122                          FRW         744.33333   -384.33333     450.66667
SYSTOLIC           98.20247    375.21840      77.29388                       SYSTOLIC    -384.33333   1660.00000   -2906.66667
CHOLSTRL           61.73122     77.29388    1599.04378                       CHOLSTRL     450.66667  -2906.66667   23335.16667


POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
   FRW            286.74910     96.89714      62.78334                          FRW         1.00000      0.29405      0.09106
SYSTOLIC           96.89714    378.69392      69.22185                       SYSTOLIC     0.29405      1.00000      0.08736
CHOLSTRL           62.78334     69.22185    1657.84303                       CHOLSTRL     0.09106      0.08736      1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    364      362     2     255.96162     2112.50000      99.65193   118.50000    18.8481    0.07328    0.04613   -12.17850
AT EXAM NO.4    379      377     2     317.60448      112.50000     100.91512    96.50000    -4.4151   -0.04944    0.04242   -36.86923
AT EXAM NO.6    372      370     2     281.70820        8.00000      99.27838    95.00000    -4.2784   -0.06087    0.04388   -22.89268

SYSTOLIC

AT EXAM NO.2    364      362     2     449.95590      512.00000     127.38950   136.00000     8.6105    0.00481    0.03480   -12.17850
AT EXAM NO.4    379      377     2     364.21212       50.00000     125.72149   149.00000    23.2785    0.07568    0.03960   -36.86923
AT EXAM NO.6    372      370     2     313.31631     4418.00000     124.54595   173.00000    48.4541    0.16604    0.04124   -22.89268

CHOLSTRL

AT EXAM NO.2    364      362     2    1459.80240     6384.50000     221.03039   217.50000    -3.5304   -0.00751    0.01872   -12.17850
AT EXAM NO.4    379      377     2    1577.83783    57460.50000     225.55703   375.50000   149.9430    0.08690    0.01708   -36.86923
AT EXAM NO.6    372      370     2    1756.87460     6160.50000     229.92162   238.50000     8.5784   -0.00477    0.01712   -22.89268


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.88
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    29.86
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    16.44
                                                                                                       * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-B-3.3
                         THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                            WOMEN  46-49  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) =1014        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS = 1249

               AVG X(1)        AVG X(0)      DIFF          CHI SQ.       STND DEV       DISCRIMINANT        STANDARD ERROR        T
               (CASES)        (NON-CASES)                               OF VARIABLE     COEFFICIENT         OF COEFFICIENT
1      FRW    127.25000       102.24655    25.00345          8.18       17.45329         0.08739448          0.03016150        2.898
2  SYSTOLIC   133.50000       131.37574     2.12426          0.04       21.80693        -0.02200037          0.02427449       -0.906
3  CHOLSTRL   282.25000       239.55030    42.69970          3.56       45.16455         0.02020880          0.01117715        1.808
 INTERCEPT                                                                             -17.92252643
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    11.96


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          304.64157     116.83543      45.47400                          FRW       292.33333     -26.33333     717.50000
SYSTOLIC        116.83543     476.24273     120.25974                       SYSTOLIC     -26.33333     121.33333    -632.00000
CHOLSTRL         45.47400     120.25974    2035.03548                       CHOLSTRL     717.50000    -632.00000    4467.00000


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW          304.61727     116.55277      46.80080                          FRW         1.00000       0.30623       0.05937
SYSTOLIC        116.55277     475.54202     118.77453                       SYSTOLIC       0.30623       1.00000       0.12060
CHOLSTRL         46.80080     118.77453    2039.83699                       CHOLSTRL       0.05937       0.12060       1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     313      310     3      292.98044      292.33333     104.05806    118.33333      14.2753     0.05946     0.03622   -13.45319
AT EXAM NO.4     337      336     1      265.15969        0.0         101.08631    154.00000      52.9137     0.20008     0.06329   -34.30418
AT EXAM NO.6     368      368     0      350.49910        0.0         101.77989      0.0        -101.7799    -0.20008     0.00295    28.65971

SYSTOLIC

AT EXAM NO.2     313      310     3      503.30453      121.33333     135.30000    130.66667      -4.6333    -0.02934     0.02777   -13.45319
AT EXAM NO.4     337      336     1      488.56343        0.0         129.62500    142.00000      12.3750    -0.01325     0.04688   -34.30418
AT EXAM NO.6     368      368     0      442.21132        0.0         129.66848      0.0        -129.6685    -0.20273     0.00265    28.65971

CHOLSTRL

AT EXAM NO.2     313      310     3     2107.75685     4467.00000     233.25484    283.00000      49.7452     0.02365     0.01264   -13.45319
AT EXAM NO.4     337      336     1     1749.39101        0.0         238.92262    280.00000      41.0774     0.01838     0.02417   -34.30418
AT EXAM NO.6     368      368     0     2234.54501        0.0         245.42663      0.0        -245.4266    -0.09161     0.00111    28.65971


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    6.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   11.14
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                       TABLE 23-B-3.4
                         THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                             WOMEN  50-53  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 917        NUMBER OF CASES (N1) =   5       TOTAL NUMBER BEFORE EXCLUSIONS = 1151

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR      T
                (CASES)      (NON-CASES)                           OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW      98.20000      104.05453   -5.85453        0.56      17.44962        -0.03071269          0.02689795       -1.142
2  SYSTOLIC   150.40000      138.42857   11.97143        1.24      23.96935         0.02909597          0.01974238        1.474
3  CHOLSTRL   241.20000      251.17012   -9.97012        0.27      42.97309        -0.00728477          0.01052498       -0.692
 INTERCEPT                                                                         -4.51425042
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.99


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW         305.12474     122.85492      11.96540                             FRW      110.91667    213.50000     -34.91667
SYSTOLIC       122.85492     574.88938     131.66098                          SYSTOLIC    213.50000    465.00000     284.50000
CHOLSTRL        11.96540     131.66098    1844.71425                          CHOLSTRL    -34.91667    284.50000    2447.58333

POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW         304.48938     123.15146      11.81203                             FRW        1.00000      0.29444       0.01575
SYSTOLIC       123.15146     574.52987     132.16100                          SYSTOLIC      0.29444      1.00000       0.12831
CHOLSTRL        11.81203     132.16100    1846.68656                          CHOLSTRL      0.01575      0.12831       1.00000


                                                    SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF        BETA*     STND ERR B   INTERCEPT

   FRW

AT EXAM NO.2       312       308     4      363.82732      110.91667      106.77922     96.75000     -10.0292    -0.03587     0.02733     -2.80003
AT EXAM NO.4       291       290     1      310.94638        0.0          105.04138    104.00000      -1.0414     0.00016     0.06128     -3.92516
AT EXAM NO.6       319       319     0      243.16202        0.0          100.52665      0.0        -100.5266    -0.31353     0.00374     39.32087

SYSTOLIC

AT EXAM NO.2       312       308     4      670.84483      465.00000      143.95455    154.50000      10.5455     0.02411     0.02046     -2.80003
AT EXAM NO.4       291       290     1      585.05639        0.0          138.09655    134.00000      -4.0966    -0.00683     0.04470     -3.92516
AT EXAM NO.6       319       319     0      473.01331        0.0          133.39498      0.0        -133.3950    -0.18075     0.00270     39.32087

CHOLSTRL

AT EXAM NO.2       312       308     4     2036.62688     2447.58333      246.81494    240.25000      -6.5649    -0.00612     0.01137     -2.80003
AT EXAM NO.4       291       290     1     1925.81892        0.0          251.71034    245.00000      -6.7103    -0.00335     0.02284     -3.92516
AT EXAM NO.6       319       319     0     1585.73179        0.           254.88401      0.0        -254.8840    -0.13553     0.00142     39.32087


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =      2.58
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =      0.05
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                                 * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-3.5
                                    THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                        WOMEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 822        NUMBER OF CASES (N1) =  19         TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)        AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT         STANDARD ERROR      T
                 (CASES)      (NON-CASES)                             OF VARIABLE         COEFFICIENT          OF COEFFICIENT
 1     FRW     111.15789       105.95742    5.20047          1.61       17.68677          0.00293601           0.01385296        0.212
 2  SYSTOLIC   162.68421       142.93187   19.75234         10.99       25.67623          0.02820253           0.00958628        2.942
 3  CHOLSTRL   276.47368       260.21290   16.26079          2.35       45.69164          0.00614053           0.00510504        1.203
   INTERCEPT                                                                            -10.04337229
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   12.48


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                               VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW          313.85315    148.81423     32.95535                       FRW       260.03929    -11.07321   -229.42857
 SYSTOLIC        148.81423    660.69147    118.81133                    SYSTOLIC     -11.07321    586.44286    134.10714
 CHOLSTRL         32.95535    118.81133   2051.83110                    CHOLSTRL    -229.42857    134.10714   3925.08929


 POOLED VARIANCE-COVARIANCE MATRIX                                      POOLED CORRELATION MATRIX
    FRW          312.82198    145.75051     27.92763                       FRW         1.00000      0.32094      0.03456
 SYSTOLIC        145.75051    659.26874    119.10442                    SYSTOLIC       0.32094      1.00000      0.10152
 CHOLSTRL         27.92763    119.10442   2087.72586                    CHOLSTRL       0.03456      0.10152      1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2      283      276    7      295.81949      445.90476     107.09783    122.28571      15.1879     0.03840     0.02296   -11.61510
 AT EXAM NO.4      278      271    7      327.30064      194.00000     106.45387    109.00000       2.5461     0.00342     0.02234   -10.56230
 AT EXAM NO.6      280      275    5      318.70145       80.30000     104.32364     98.60000      -5.7236    -0.04698     0.02775    -8.83180

 SYSTOLIC

 AT EXAM NO.2      283      276    7      740.73121      886.90476     148.41667    175.28571      26.8690     0.03030     0.01459   -11.61510
 AT EXAM NO.4      278      271    7      648.78281      401.47619     142.37269    151.85714       9.4844     0.00832     0.01608   -10.56230
 AT EXAM NO.6      280      275    5      592.09441      413.20000     137.97818    160.20000      22.2218     0.05042     0.02030    -8.83180

 CHOLSTRL

 AT EXAM NO.2      283      276    7     2144.43746     1614.61905     254.82246    246.42857      -8.3939    -0.00546     0.00831   -11.61510
 AT EXAM NO.4      278      271    7     2069.23518     6103.28571     260.17712    302.57143      42.3943     0.01889     0.00836   -10.56230
 AT EXAM NO.6      280      275    5     1941.73675     4123.50000     265.65818    282.00000      16.3418     0.00757     0.01019    -8.83180


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     9.85
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.06
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.43
                                                                                                    * DISCRIMINANT COEFFICIENT
                                    TABLE 23-B-3.6
                        THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                            WOMEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 713        NUMBER OF CASES (N1) =  22        TOTAL NUMBER BEFORE EXCLUSIONS =  985

                 AVG X(1)      AVG X(0)     DIFF       CHI SQ.     STND DEV      DISCRIMINANT     STANDARD ERROR      T
                 (CASES)      (NON-CASES)                         OF VARIABLE     COEFFICIENT     OF COEFFICIENT
 1     FRW      112.50000     106.23422    6.26578       2.48     18.38233        0.00391495       0.01232827      0.318
 2  SYSTOLIC    172.59091     147.63534   24.95557      19.08     26.39315        0.03500497       0.00859040      4.075
 3  CHOLSTRL    265.59091     263.11220    2.47871       0.07     44.81135        0.00030526       0.00484305      0.063
  INTERCEPT                                                                      -9.59205628
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   19.18


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW          336.11802     143.74371     -26.59711                    FRW       404.87093     56.54135   -176.03008
 SYSTOLIC        143.74371     666.18152      66.78535                 SYSTOLIC      56.54135   1833.22473   -319.81788
 CHOLSTRL        -26.59711      66.78535    2020.98988                 CHOLSTRL    -176.03008   -319.81788   1524.79365

 POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
    FRW          337.90994     141.47095     -30.49180                    FRW         1.00000      0.29159     -0.03702
 SYSTOLIC        141.47095     696.59828      56.70927                 SYSTOLIC       0.29159      1.00000      0.04795
 CHOLSTRL        -30.49180      56.70927    2008.05746                 CHOLSTRL      -0.03702      0.04795      1.00000

                                              SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2     240      233     7     356.66294      439.28571    106.16309   107.42857     1.2655   -0.00506    0.02110    -5.74681
 AT EXAM NO.4     251      242     9     307.79116      327.50000    106.79339   122.66667    15.8733    0.03305    0.02027   -15.90510
 AT EXAM NO.6     244      238     6     344.81149      487.36667    105.73529   103.16667    -2.5686   -0.02767    0.02358    -5.73368

 SYSTOLIC

 AT EXAM NO.2     240      233     7     691.64626     2439.61905    150.98283   166.57143    15.5886    0.02177    0.01459    -5.74681
 AT EXAM NO.4     251      242     9     736.22400     1942.77778    146.99174   181.44444    34.4527    0.03807    0.01278   -15.90510
 AT EXAM NO.6     244      238     6     570.02938      930.26667    145.01261   166.33333    21.3207    0.04815    0.01872    -5.73368

 CHOLSTRL

 AT EXAM NO.2     240      233     7    2013.97599     1344.14286    258.18026   251.85714    -6.3231   -0.00265    0.00869    -5.74681
 AT EXAM NO.4     251      242     9    1874.84435     2108.11111    262.61157   281.11111    18.4995    0.00945    0.00783   -15.90510
 AT EXAM NO.6     244      238     6    2176.46791      808.26667    268.44958   258.33333   -10.1162   -0.00969    0.00914    -5.73368


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    2.38
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   17.45
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    7.00
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                                TABLE 23-B-3.7
                                 THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                    WOMEN  62-65  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 468          NUMBER OF CASES (N1) =  12          TOTAL NUMBER BEFORE EXCLUSIONS =  680

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT        STANDARD ERROR       T
                (CASES)       (NON-CASES)                             OF VARIABLE     COEFFICIENT         OF COEFFICIENT
 1     FRW     106.50000      106.34615    0.15385         0.00       17.40968       -0.00469875          0.01717992        -0.274
 2  SYSTOLIC   160.00000      149.84829   10.15171         1.98       24.67190        0.01739716          0.01212495         1.435
 3  CHOLSTRL   264.83333      264.24786    0.58547         0.00       41.92003        0.00058229          0.00697681         0.083
   INTERCEPT                                                                         -6.01278464
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.06


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             304.25779      85.16664       7.51345                            FRW        243.11481     360.79259      92.87778
 SYSTOLIC           85.16664     601.94941     -24.51157                          SYSTOLIC     360.79259     957.61481      71.06667
 CHOLSTRL            7.51345     -24.51157    1757.02512                          CHOLSTRL      92.87778      71.06667    1770.92222


 POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
   FRW             303.09685      90.40004       9.13430                            FRW          1.00000       0.21046       0.01252
 SYSTOLIC           90.40004     608.70255     -22.69680                          SYSTOLIC       0.21046       1.00000      -0.02195
 CHOLSTRL            9.13430     -22.69680    1757.28899                          CHOLSTRL       0.01252      -0.02195       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2        46      45     1      450.97273        0.0         114.06667    90.00000     -24.0667    -0.06287    0.04890      7.39404
 AT EXAM NO.4       213     207     6      334.26087       38.16667     105.84058   109.16667       3.3261     0.00307    0.02363    -11.04665
 AT EXAM NO.6       221     216     5      245.48527      499.30000     105.22222   106.60000       1.3778     0.00417    0.02905     -3.25003

 SYSTOLIC

 AT EXAM NO.2        46      45     1      565.13636        0.0         153.66667   160.00000       6.3333     0.00959    0.04558      7.39404
 AT EXAM NO.4       213     207     6      689.45547      708.66667     151.30435   164.66667      13.3623     0.01901    0.01627    -11.04665
 AT EXAM NO.6       221     216     5      525.64022     1268.80000     147.65741   154.40000       6.7426     0.01231    0.01976     -3.25003

 CHOLSTRL

 AT EXAM NO.2        46      45     1     1320.84646        0.0         250.28889   220.00000     -30.2889    -0.02675    0.02955      7.39404
 AT EXAK NO.4       213     207     6     1581.32817     2875.50000     259.91787   284.50000      24.5821     0.01533    0.01032    -11.04665
 AT EXAM NO.6       221     216     5     2014.63178      390.20000     271.30556   250.20000     -21.1056    -0.01080    0.01017     -3.25003


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.33
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     3.74
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.55
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-8-3.8
                                  THIS ANALYSIS IS FOR ANGINA PECTORIS UNCOMPLICATED
                                     WOMEN  66-69  EXAMS 2,4, AND 6 POOLED

 NUMBER OF NON-CASES (NO) = 222        NUMBER OF CASES (N1) =  14        TOTAL NUMBER BEFORE EXCLUSIONS =  352

                 AVG X(1)        AVG X(0)      DIFF        CHI SQ.      STND DEV         DISCRIMINANT         STANDARD ERROR      T
                 (CASES)       (NON-CASES)                             OF VARIABLE       COEFFICIENT          OF COEFFICIENT
1       FRW     109.57143       105.25676     4.31467        0.72       18.43293          0.00914364           0.01562984       0.585
2  SYSTOLIC     164.64286       152.39189    12.25097        2.52       28.01231          0.01393833           0.01018515       1.368
3  CHOLSTRL     277.21429       267.50901     9.70528        0.65       43.62298          0.00548580           0.00638940       0.859
 INTERCEPT                                                                               -7.44936691
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    3.47


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          347.20850     144.22584    -110.32717                       FRW       203.45139   -112.15972   -153.61806
SYSTOLIC        144.22584     781.82315      45.64096                    SYSTOLIC    -112.15972    837.24306   -427.21528
CHOLSTRL       -110.32717      45.64096    1919.32206                    CHOLSTRL    -153.61806   -427.21528   1603.07639

POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW          339.77278     130.96452    -112.56635                       FRW         1.00000      0.25364     -0.13999
SYSTOLIC        130.96452     784.68969      21.18288                    SYSTOLIC       0.25364      1.00000      0.01733
CHOLSTRL       -112.56635      21.18288    1902.96453                    CHOLSTRL      -0.13999      0.01733      1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

       FRW

AT EXAM NO.2        0       0     0       0.0            0.0           0.0          0.0          0.0      -0.06287    0.0          0.0
AT EXAM NO.4       42      40     2     347.98974       12.50000     110.10000   122.50000     12.4000     0.04870    0.04471   -17.66489
AT EXAM NO.6      194     182    12     347.04016      220.81061     104.19231   107.41667      3.2244     0.00560    0.01673    -6.13071

 SYSTOLIC

AT EXAM NO.2        0       0     0       0.0            0.0           0.0          0.0          0.0       0.00959    0.0          0.0
AT EXAM NO.4       42      40     2     707.89487     3042.00000     148.05000   165.00000     16.9500     0.00480    0.02912   -17.66489
AT EXAM NO.6      194     182    12     797.75244      636.81061     153.34615   164.58333     11.2372     0.01342    0.01090    -6.13071

 CHOLSTRL

AT EXAM NO.2        0       0     0       0.0            0.0           0.0          0.0          0.0      -0.02675    0.0          0.0
AT EXAM NO.4       42      40     2    1525.53782     2178.00000     257.72500   296.00000     38.2750     0.02981    0.01951   -17.66489
AT EXAM NO.6      194     182    12    2004.17060     1550.81061     269.65934   274.08333      4.4240     0.00252    0.00675    -6.13071


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    3.48
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    2.03
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                                  TABLE 23-B-6.3
                                    THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                         WOMEN   46-49   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) =1021        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS = 1249

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV         DISCRIMINANT        STANDARD ERROR       T
                 (CASES)     (NON-CASES)                           OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW      108.25000     102.29089    5.95911        0.46       17.50013        -0.00074864          0.03004594       -0.025
2  SYSTOLIC    155.50000     131.41920   24.08080        4.83       21.87804         0.04664858          0.02417227        1.930
3  CHOLSTRL    276.50000     239.90891   36.59109        2.50       46.18346         0.01437703          0.01094103        1.314
  INTERCEPT                                                                        -15.86783237
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.55


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             305.53133     115.32850      53.60065                      FRW        674.33333     300.33333     796.16667
SYSTOLIC           115.32850     477.57452     125.18183                   SYSTOLIC      300.33333    1025.33333    1522.66667
CHOLSTRL            53.60065     125.18183    2132.24872                   CHOLSTRL      796.16667    1522.66667    2470.33333


PCOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW             306.25447     115.69126      55.05667                      FRW          1.00000       0.30217       0.06812
SYSTOLIC           115.69126     478.64856     127.92200                   SYSTOLIC        0.30217       1.00000       0.12660
CHOLSTRL            55.05667     127.92200    2132.91163                   CHOLSTRL        0.06812       0.12660       1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF        BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     314      314    0      281.24340        0.0         103.94904      0.0         -103.9490    -0.27052     0.00356     32.49702
AT EXAM NO.4     342      341    1      286.87747        0.0         101.59238    83.00000       -18.5924    -0.11119     0.06154    -20.01879
AT EXAM NO.6     369      366    3      343.73525      674.33333     101.51913   116.66667        15.1475     0.03200     0.03289    -14.39276

SYSTOLIC

AT EXAM NO.2     314      314    0      484.98184        0.0         135.07325      0.0         -135.0732    -0.19306     0.00271     32.49702
AT EXAM NO.4     342      341    1      499.97826        0.0         129.90029   176.00000        46.0997     0.10542     0.04683    -20.01879
AT EXAM NO.6     369      366    3      450.35326     1025.33333     129.69945   148.66667        18.9672     0.03070     0.02897    -14.39276

CHOLSTRL

AT EXAM NO.2     314      314    0     2143.13275        0.0         233.85669      0.0         -233.8567    -0.09534     0.00122     32.49702
AT EXAM NO.4     342      341    1     1818.65708        0.0         239.28446   301.00000        61.7155     0.03082     0.02386    -20.01879
AT EXAM NO.6     369      366    3     2415.02804     2470.33333     245.68306   268.33333        22.6503     0.00710     0.01191    -14.39276


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.80
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.65
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-B-6.4
                               THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                    WOMEN   50-53   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 936         NUMBER OF CASES (N1) =    5         TOTAL NUMBER BEFORE EXCLUSIONS = 1151

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.       STND DEV          DISCRIMINANT         STANDARD ERROR       T
                  (CASES)      (NON-CASES)                              OF VARIABLE         COEFFICIENT          OF COEFFICIENT
 1     FRW      107.80000      104.21795     3.58205          0.21       17.47161           0.01409963           0.02691201        0.524
 2  SYSTOLIC    138.20000      138.88248    -0.68248          0.00       24.68904          -0.00792664           0.01919808       -0.413
 3  CHOLSTRL    282.20000      251.39850    30.80150          2.53       43.17917           0.01696600           0.01047266        1.620
  INTERCEPT                                                                              -10.15521397
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.88


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            306.16571      130.20394       17.53344                          FRW        22.66667      -47.66667      167.00000
 SYSTOLIC          130.20394      610.63542      139.45056                       SYSTOLIC     -47.66667      271.58333     -679.08333
 CHOLSTRL           17.53344      139.45056     1863.62279                       CHOLSTRL     167.00000     -679.08333     2118.91667


 POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
    FRW            305.25706      129.63384       18.01250                          FRW         1.00000        0.30053        0.02388
 SYSTOLIC          129.63384      609.54871      136.82706                       SYSTOLIC       0.30053        1.00000        0.12835
 CHOLSTRL           18.01250      136.82706     1864.44104                       CHOLSTRL       0.02388        0.12835        1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)      AVG X(1)        DIFF        BETA*    STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2       318      318     0       357.02408         0.0         106.85849       0.0         -106.8585    -0.26472     0.00306     30.40747
 AT EXAM NO.4       298      294     4       300.75749       22.66667      105.01361    101.00000        -4.0136    -0.02002     0.03137    -10.01871
 AT EXAM NO.6       325      324     1       261.15800         0.0         100.90432    135.00000        34.0957     0.16318     0.06555    -13.69998

 SYSTOLIC

 AT EXAM NO.2       318      318     0       750.22730         0.0         144.85220       0.0         -144.8522    -0.11471     0.00215     30.40747
 AT EXAM NO.4       298      294     4       595.52915      271.58333      138.08163    143.25000         5.1684     0.01310     0.02226    -10.01871
 AT EXAM NO.6       325      324     1       487.33978         0.0         133.75000    118.00000       -15.7500    -0.06712     0.04832    -13.69998

 CHOLSTRL

 AT EXAM NO.2       318      318     0      2023.23986         0.0         247.41195       0.0         -247.4119    -0.11089     0.00127     30.40747
 AT EXAM NO.4       298      294     4      1900.69644     2118.91667      251.36395    293.25000        41.8861     0.02181     0.01154    -10.01871
 AT EXAM NO.6       325      324     1      1673.34047         0.0         255.34259    238.00000       -17.3426    -0.01167     0.02485    -13.69998


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.19
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    6.80
                                                                                                           * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-6.5
                              THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                  WOMEN  54-57  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 856         NUMBER OF CASES (N1) =   8          TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)        AVG X(0)      DIFF          CHI SQ.        STND DEV         DISCRIMINANT        STANDARD ERROR       T
                 (CASES)      (NON-CASES)                                 OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1      FRW     105.25000       106.14369    -0.89369           0.02        17.52199          -0.03194029          0.02137948      -1.494
2  SYSTOLIC    179.37500       143.14720    36.22780          15.85        25.62193           0.06082471          0.01466970       4.146
3  CHOLSTRL    283.25000       260.44743    22.80257           1.90        46.53254           0.00797552          0.00766451       1.041
  INTERCEPT                                                                                 -13.27363601
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   19.13


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            308.31691     142.23950      29.19122                       FRW        85.80000     201.40000     183.30000
SYSTOLIC          142.23950     654.75541     109.88612                     SYSTOLIC    201.40000     951.30000    -424.40000
CHOLSTRL           29.19122     109.88612    2164.56337                     CHOLSTRL    183.30000    -424.40000    2287.05000


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW            307.02019     142.58426      30.08929                       FRW         1.00000       0.31760       0.03690
SYSTOLIC          142.58426     656.48352     106.77256                     SYSTOLIC      0.31760       1.00000       0.08956
CHOLSTRL           30.08929     106.77256    2165.27716                     CHOLSTRL      0.03690       0.08956       1.00000

                                                 SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      288      286    2      292.12455        2.00000     107.49650   122.00000      14.5035     0.03739     0.04303   -19.18506
AT EXAM NO.4      293      289    4      325.03150      136.33333     106.67820    98.50000      -8.1782    -0.05661     0.02966   -10.15520
AT EXAM NO.6      283      281    2      307.60628       18.00000     104.21708   102.00000      -2.2171    -0.06080     0.04379   -15.54240

SYSTOLIC

AT EXAM NO.2      288      286    2      751.47718       72.00000     149.00350   174.00000      24.9965     0.02527     0.02686   -19.18506
AT EXAM NO.4      293      289    4      643.38132     1224.00000     142.59170   178.00000      35.4083     0.06676     0.02109   -10.15520
AT EXAM NO.6      283      281    2      568.00552     1012.50000     137.75801   187.50000      49.7420     0.10421     0.03217   -15.54240

CHOLSTRL

AT EXAM NO.2      288      286    2     2147.13856      220.50000     254.55944   302.50000      47.9406     0.02101     0.01537   -19.18506
AT EXAM NO.4      293      289    4     2412.45100     3695.58333     261.37716   279.75000      18.3728     0.00362     0.01031   -10.15520
AT EXAM NO.6      283      281    2     1927.32921      128.00000     265.48399   271.00000       5.5160    -0.00030     0.01625   -15.54240


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.33
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    11.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    10.56
                                                                                                        * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-B-6.6
                          THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                              WOMEN  58-61  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 756        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS =  985

               AVG X(1)      AVG X(0)     DIFF        CHI SQ.     STND DEV       DISCRIMINANT      STANDARD ERROR      T
                (CASES)     (NON-CASES)                          OF VARIABLE     COEFFICIENT       OF COEFFICIENT
1     FRW     112.54545     106.59259    5.95286        1.15      18.26952        0.00612235        0.01749169       0.350
2  SYSTOLIC   165.72727     148.57804   17.14923        4.48      26.67907        0.02393343        0.01199202       1.996
3  CHOLSTRL   242.81818     263.23545  -20.41727        2.21      45.26623       -0.01073809        0.00673413      -1.595
 INTERCEPT                                                                       -5.94514168
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     7.22


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           331.80046     148.41264    -30.96342                        FRW       519.66667     211.91667    -109.66667
SYSTOLIC         148.41264     714.83353     80.66142                     SYSTOLIC     211.91667     423.66667    -517.29167
CHOLSTRL         -30.96342      80.66142   2042.03768                     CHOLSTRL    -109.66667    -517.29167    2707.31250


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           333.77540     149.08022    -31.79079                        FRW         1.00000       0.30586      -0.03844
SYSTOLIC         149.08022     711.77264     74.37545                     SYSTOLIC       0.30586       1.00000       0.06159
CHOLSTRL         -31.79079      74.37545   2049.03138                     CHOLSTRL      -0.03844       0.06159       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     248      245    3      368.60488      907.00000     107.04082    122.00000     14.9592     0.02521     0.03177   -15.48663
AT EXAM NO.4     258      252    6      291.48250      468.26667     107.22619    115.33333      8.1071     0.02097     0.02525    -5.12438
AT EXAM NO.6     261      259    2      336.21723        2.00000     105.55212     90.00000    -15.5521    -0.04909     0.04138     3.44116

SYSTOLIC

AT EXAM NO.2     248      245    3      757.97598      817.00000     152.16735    187.00000     34.8327     0.04140     0.02200   -15.48663
AT EXAM NO.4     258      252    6      831.27996      311.06667     148.20635    164.33333     16.1270     0.01697     0.01513    -5.12438
AT EXAM NO.6     261      259    2      560.74511      200.00000     145.54440    138.00000     -7.5444     0.00695     0.03274     3.44116

CHOLSTRL

AT EXAM NO.2     248      245    3     2032.63108     6608.33333     256.99184    259.33333      2.3415     0.00456     0.01296   -15.48663
AT EXAM NO.4     258      252    6     1897.27077     1676.26667     263.82143    238.66667    -25.1548    -0.01433     0.00952    -5.12438
AT EXAM NO.6     261      259    2     2191.77298       60.50000     268.57143    230.50000    -38.0714    -0.01799     0.01557     3.44116


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.71
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.77
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-6.7
                                     THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                                          WOMEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 504         NUMBER OF CASES (N1) =  14         TOTAL NUMBER BEFORE EXCLUSIONS =  680

                 AVG X(1)       AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR       T
                  (CASES)      (NON-CASES)                             OF VARIABLE         COEFFICIENT          OF COEFFICIENT
1      FRW      113.57143      106.87103    6.70040         2.00       17.50088            0.01045438           0.01575895        0.663
2  SYSTOLIC     179.21429      150.82341   28.39087        17.24       25.23498            0.04315922           0.01092958        3.949
3  CHOLSTRL     259.71429      264.68452   -4.97024         0.18       42.96145           -0.00223337           0.00630995       -0.354
  INTERCEPT                                                                               -11.27230960
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   17.80


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                           VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           302.03335     84.69524     11.91541                                  FRW       499.72727    -49.86364    128.13636
SYSTOLIC          84.69524    630.52618    -28.67382                               SYSTOLIC     -49.86364    922.74242    228.78788
CHOLSTRL          11.91541    -28.67382   1853.03434                               CHOLSTRL     128.13636    228.78788   1511.03030


POOLED VARIANCE-COVARIANCE MATRIX                                                  POOLED CORRELATION MATRIX
   FRW           306.28068     81.80433     14.41235                                  FRW         1.00000      0.18523      0.01917
SYSTOLIC          81.80433    636.80426    -23.14242                               SYSTOLIC       0.18523      1.00000     -0.02135
CHOLSTRL          14.41235    -23.14242   1845.68660                               CHOLSTRL       0.01917     -0.02135      1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)   AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2       49       47     2     461.67993       98.00000    113.19149  117.00000      3.8085     0.00426     0.03440    -4.76554
AT EXAM NO.4      228      222     6     307.55764      946.70000    106.27477  121.50000     15.2252     0.03826     0.02367   -14.50586
AT EXAM NO.6      241      235     6     265.43244      133.10000    106.17021  104.50000     -1.6702    -0.02007     0.02581   -10.97891

SYSTOLIC

AT EXAM NO.2       49       47     2     499.99445     2738.00000    154.51064  167.00000     12.4894     0.01918     0.03193    -4.76554
AT EXAM NO.4      228      222     6     735.12747      189.46667    152.30631  175.66667     23.3604     0.02677     0.01579   -14.50586
AT EXAM NO.6      241      235     6     557.39614     1292.96667    148.68511  186.83333     38.1482     0.06864     0.01746   -10.97891

CHOLSTRL

AT EXAM NO.2       49       47     2    1961.69380      180.50000    253.95745  234.50000    -19.4574    -0.00804     0.01679    -4.76554
AT EXAM NO.4      228      222     6    1638.62486     1853.36667    259.85135  272.83333     12.9820     0.00807     0.01021   -14.50586
AT EXAM NO.6      241      235     6    2034.17178     1434.80000    271.39574  255.00000    -16.3957    -0.00794     0.00920   -10.97891


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.79
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    7.67
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =   16.28
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-B-6.8
                         THIS ANALYSIS IS FOR TOTAL CEREBROVASCULAR ACCIDENTS
                              WOMEN  66-69  EXAMS 2,4, AND 6 POOLED

    NUMBER OF NON-CASES (NO) = 241        NUMBER OF CASES (N1) =  10        TOTAL NUMBER BEFORE EXCLUSIONS =  352

                 AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT      STANDARD ERROR       T
                 (CASES)      (NON-CASES)                            OF VARIABLE     COEFFICIENT       OF COEFFICIENT
 1     FRW       98.50000     105.24066    -6.74066        1.39      17.73088        -0.03622656        0.01912565       -1.894
 2  SYSTOLIC    165.20000     152.60581    12.59419        1.97      27.83395         0.02276165        0.01205378        1.888
 3  CHOLSTRL    243.60000     267.53112   -23.93112        2.69      45.25412        -0.01395786        0.00722007       -1.933
   INTERCEPT                                                                          0.45845507
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    8.30


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            319.96643    134.54278   -123.59985                        FRW        147.61111      64.80556      70.62500
 SYSTOLIC         134.54278    777.43834     21.82237                      SYSTOLIC      64.80556     693.77778    -104.00000
 CHOLSTRL        -123.59985     21.82237   2088.46839                      CHOLSTRL      70.62500    -104.00000     837.00000

 POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW            314.38407    132.28408   -117.30917                        FRW          1.00000       0.26804      -0.14620
 SYSTOLIC         132.28408    774.72868     17.74715                      SYSTOLIC       0.26804       1.00000       0.01409
 CHOLSTRL        -117.30917     17.74715   2047.93500                      CHOLSTRL      -0.14620       0.01409       1.00000

                                               SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1   NO   N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2       0       0    0       0.0           0.0            0.0         0.0          0.0       0.00426     0.0         0.0
 AT EXAM NO.4      44      43    1     337.98007       0.0          110.13953    77.00000    -33.1395   -0.09378     0.06153    18.25535
 AT EXAM NO.6     207     198    9     316.12595     147.61111      104.17677   100.88889     -3.2879   -0.02578     0.02018    -2.12293

 SYSTOLIC

 AT EXAM NO.2       0       0    0       0.0           0.0            0.0         0.0          0.0       0.01918     0.0         0.0
 AT EXAM NO.4      44      43    1     747.35991       0.0          149.20930   100.00000    -49.2093   -0.03503     0.04094    18.25535
 AT EXAM NO.6     207     198    9     783.85100     693.77778      153.34343   172.44444     19.1010    0.02836     0.01259    -2.12293

 CHOLSTRL

 AT EXAM NO.2       0       0    0       0.0           0.0            0.0         0.0          0.0      -0.00804     0.0         0.0
 AT EXAM NO.4      44      43    1    1635.39203       0.0          258.41860   204.00000    -54.4186   -0.03839     0.02602    18.25535
 AT EXAM NO.6     207     198    9    2185.06335     837.00000      269.51010   248.00000    -21.5101   -0.01138     0.00746    -2.12293


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.76
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     7.50
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-B-7.4
                             THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                               WOMEN  50-53  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 936        NUMBER OF CASES (N1) =   5        TOTAL NUMBER BEFORE EXCLUSIONS = 1151

              AVG X(1)      AVG X(0)      DIFF        CHI SQ.     STND DEV       DISCRIMINANT     STANDARD ERROR      T
               (CASES)    (NON-CASES)                            OF VARIABLE     COEFFICIENT     OF COEFFICIENT
1     FRW     107.80000    104.21795    3.58205        0.21       17.47161        0.01409963       0.02691201      0.524
2  SYSTOLIC   138.20000    138.88248   -0.68248        0.00       24.68904       -0.00792664       0.01919808     -0.413
3  CHOLSTRL   282.20000    251.39850   30.80150        2.53       43.17917        0.01696600       0.01047266      1.620
 INTERCEPT                                                                     -10.15521397
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.88


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          306.16571    130.20394     17.53344                        FRW        22.66667    -47.66667    167.00000
SYSTOLIC        130.20394    610.63542    139.45056                     SYSTOLIC     -47.66667    271.58333   -679.08333
CHOLSTRL         17.53344    139.45056   1863.62279                     CHOLSTRL     167.00000   -679.08333   2118.91667


POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
   FRW          305.25706    129.63384     18.01250                        FRW         1.00000      0.30053      0.02388
SYSTOLIC        129.63384    609.54871    136.82706                     SYSTOLIC      0.30053      1.00000      0.12835
CHOLSTRL         18.01250    136.82706   1864.44104                     CHOLSTRL      0.02388      0.12835      1.00000


                                            SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

AT EXAM NO.2     318     318    0      357.02408        0.0         106.85849      0.0         -106.8585    -0.26472    0.00306    30.40747
AT EXAM NO.4     298     294    4      300.75749     22.66667       105.01361   101.00000        -4.0136    -0.02002    0.03137   -10.01871
AT EXAM NO.6     325     324    1      261.15800        0.0         100.90432   135.00000        34.0957     0.16318    0.06555   -13.69998

SYSTOLIC

AT EXAM NO.2     318     318    0      750.22730        0.0         144.85220      0.0         -144.8522    -0.11471    0.00215    30.40747
AT EXAM NO.4     298     294    4      595.52915    271.58333       138.08163   143.25000         5.1684     0.01310    0.02226   -10.01871
AT EXAM NO.6     325     324    1      487.33978        0.0         133.75000   118.00000       -15.7500    -0.06712    0.04832   -13.69998

CHOLSTRL

AT EXAM NO.2     318     318    0     2023.23986        0.0         247.41195      0.0         -247.4119    -0.11089    0.00127    30.40747
AT EXAM NO.4     298     294    4     1900.69644   2118.91667       251.36395   293.25000        41.8861     0.02181    0.01154   -10.01871
AT EXAM NO.6     325     324    1     1673.34047        0.0         255.34259   238.00000       -17.3426    -0.01167    0.02485   -13.69998


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.19
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    6.80
                                                                                                      * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-B-7.5
                                        THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                          WOMEN  54-57  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 857        NUMBER OF CASES (N1) =   7        TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                   AVG X(1)       AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR       T
                   (CASES)      (NON-CASES)                              OF VARIABLE        COEFFICIENT         OF COEFFICIENT
 1      FRW       107.85714      106.12135    1.73579         0.07       17.52896          -0.02198060           0.02281417       -0.963
 2  SYSTOLIC      179.00000      143.19253   35.80747        13.52       25.65663           0.05690404           0.01563617        3.639
 3  CHOLSTRL      296.00000      260.36989   35.63011         4.08       46.46637           0.01406174           0.00819910        1.715
  INTERCEPT                                                                               -15.53463106
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   17.36


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                         VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             308.40776     141.16801      30.70422                            FRW          63.16667     267.08333     -99.58333
 SYSTOLIC          141.16801     655.80096     106.65901                          SYSTOLIC      267.08333    1183.79167    -416.16667
 CHOLSTRL           30.70422     106.65901    2167.32621                          CHOLSTRL      -99.58333    -416.16667     407.79167

 POOLED VARIANCE-COVARIANCE MATRIX                                                POOLED CORRELATION MATRIX
   FRW             307.26444     141.75503      30.09682                            FRW           1.00000       0.31520       0.03695
 SYSTOLIC          141.75503     658.26246     104.22159                          SYSTOLIC        0.31520       1.00000       0.08742
 CHOLSTRL           30.09682     104.22159    2159.12325                          CHOLSTRL        0.03695       0.08742       1.00000

                                                       SUMMARY OF EXAMS 2,4,AND 6

                    NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF      BETA*     STND ERR B  INTERCEPT

       FRW

 AT EXAM NO.2        288      286     2     292.12455       2.00000      107.49650    122.00000     14.5035    0.03739     0.04303   -19.18506
 AT EXAM NO.4        293      290     3     325.24211     116.33333      106.61034    102.33333     -4.2770   -0.04023     0.03407   -14.14598
 AT EXAM NO.6        283      281     2     307.60628      18.00000      104.21708    102.00000     -2.2171   -0.06080     0.04379   -15.54240

 SYSTOLIC

 AT EXAM NO.2        288      286     2     751.47718      72.00000      149.00350    174.00000     24.9965    0.02527     0.02686   -19.18506
 AT EXAM NO.4        293      290     3     646.51031    1825.33333      142.72759    176.66667     33.9391    0.05719     0.02413   -14.14598
 AT EXAM NO.6        283      281     2     568.00552    1012.50000      137.75801    187.50000     49.7420    0.10421     0.03217   -15.54240

 CHOLSTRL

 AT EXAM NO.2        288      286     2    2147.13856     220.50000      254.55944    302.50000     47.9406    0.02101     0.01537   -19.18506
 AT EXAM NO.4        293      290     3    2419.75750     641.33333      261.14483    308.33333     47.1885    0.01631     0.01192   -14.14598
 AT EXAM NO.6        283      281     2    1927.32921     128.00000      265.48399    271.00000      5.5160   -0.00030     0.01625   -15.54240


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    4.33
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    8.56
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =   10.56
                                                                                                               * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-7.6
                                     THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                       WOMEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 759       NUMBER OF CASES (N1) =   8       TOTAL NUMBER BEFORE EXCLUSIONS =  985

                AVG X(1)       AVG X(0)       DIFF       CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR       T
                 (CASES)     (NON-CASES)                              OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW      113.75000     106.60343     7.14657        1.21        18.28813          0.00518814          0.02045763        0.254
2  SYSTOLIC    172.37500     148.57576    23.79924        6.30        26.68342          0.03360580          0.01403861        2.394
3  CHOLSTRL    241.00000     263.17391   -22.17391        1.90        45.27546         -0.01197756          0.00787965       -1.520
 INTERCEPT                                                                             -7.49769018
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     8.73


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW          332.14561     148.42396     -30.97546                         FRW        683.75000      365.70000      -87.90000
SYSTOLIC       148.42396     712.66480      81.32520                       SYSTOLIC     365.70000      612.20000     -787.60000
CHOLSTRL       -30.97546      81.32520    2037.45194                       CHOLSTRL     -87.90000     -787.60000     3927.13333


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
  FRW          334.45576     149.85153     -31.34948                         FRW          1.00000        0.30708       -0.03786
SYSTOLIC       149.85153     712.00472      75.61610                       SYSTOLIC       0.30708        1.00000        0.06259
CHOLSTRL       -31.34948      75.61610    2049.86772                       CHOLSTRL      -0.03786        0.06259        1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     248      245     3      368.60488      907.00000     107.04082   122.00000     14.9592    0.02521     0.03177   -15.48663
AT EXAM NO.4     258      254     4      293.06533      534.91667     107.32283   113.25000      5.9272    0.01111     0.03077    -4.14550
AT EXAM NO.6     261      260     1      335.97284        0.0         105.48846    91.00000    -14.4885   -0.05422     0.05835     0.29134

SYSTOLIC

AT EXAM NO.2     248      245     3      757.97598      817.00000     152.16735   187.00000     34.8327    0.04140     0.02200   -15.48663
AT EXAM NO.4     258      254     4      825.49245      475.66667     148.28346   167.50000     19.2165    0.02294     0.01847    -4.14550
AT EXAM NO.6     261      260     1      559.76394        0.0         145.47692   148.00000      2.5231    0.02619     0.04624     0.29134

CHOLSTRL

AT EXAM NO.2     248      245     3     2032.63108     6608.33333     256.99184   259.33333      2.3415    0.00456     0.01296   -15.48663
AT EXAM NO.4     258      254     4     1885.30866     2139.66667     263.78346   228.50000    -35.2835   -0.01972     0.01162    -4.14550
AT EXAM NO.6     261      260     1     2190.61234        0.0         268.40385   236.00000    -32.4038   -0.01732     0.02195     0.29134


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     5.42
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.74
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.41
                                                                                                    * DISCRIMINANT COEFFICIENT
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                                                 TABLE 23-B-7.7
                                     THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                        WOMEN  62-65  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 509         NUMBER OF CASES (N1) =   9         TOTAL NUMBER BEFORE EXCLUSIONS =  680

               AVG X(1)        AVG X(0)     DIFF         CHI SQ.       STND DEV         DISCRIMINANT        STANDARD ERROR       T
                (CASES)     (NON-CASES)                              OF VARIABLE        COEFFICIENT         OF COEFFICIENT
1    FRW      116.88889      106.87819   10.01070          2.89       17.50085          0.02057795          0.01954625       1.053
2  SYSTOLIC   181.33333      151.06483   30.26850         12.77       25.18836          0.04537995          0.01358552       3.340
3  CHOLSTRL   272.66667      264.40668    8.25999          0.33       42.94158          0.00517410          0.00783666       0.660
 INTERCEPT                                                                            -15.26909806
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   14.35


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            300.44918      84.02415      10.27304                        FRW       798.00000    -234.33333     195.33333
SYSTOLIC           84.02415     632.44939     -32.91388                     SYSTOLIC    -234.33333     803.46667    -114.40000
CHOLSTRL           10.27304     -32.91388    1848.24905                     CHOLSTRL     195.33333    -114.40000    1483.86667


POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
   FRW            306.27985      80.29340      12.44172                        FRW         1.00000       0.18215       0.01656
SYSTOLIC           80.29340     634.45349     -33.86880                     SYSTOLIC       0.18215       1.00000      -0.03131
CHOLSTRL           12.44172     -33.86880    1843.97894                     CHOLSTRL       0.01656      -0.03131       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1    VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     49      48     1       454.29078        0.0         113.41667   110.00000     -3.4167     0.00167     0.04814     9.19578
AT EXAM NO.4    228     223     5       306.43987     1166.50000     106.30942   123.00000     16.6906     0.04255     0.02587   -17.69585
AT EXAM NO.6    241     238     3       264.32897       61.00000     106.09244   109.00000      2.9076    -0.00905     0.03623   -20.98789

SYSTOLIC

AT EXAM NO.2     49      48     1       540.38121        0.0         155.54167   130.00000    -25.5417    -0.05660     0.04525     9.19578
AT EXAM NO.4    228     223     5       733.21997      227.20000     152.38565   176.80000     24.4143     0.02782     0.01725   -17.69585
AT EXAM NO.6    241     238     3       556.31493     1956.00000     148.92437   206.00000     57.0756     0.10130     0.02461   -20.98789

CHOLSTRL

AT EXAM NO.2     49      48     1      1922.02128        0.0         253.75000   225.00000    -28.7500    -0.02161     0.02364     9.19578
AT EXAM NO.4    228     223     5      1642.83945     1094.30000     259.62332   285.60000     25.9767     0.01628     0.01119   -17.69585
AT EXAM NO.6    241     238     3      2026.02810     2263.00000     271.03782   267.00000     -4.0378    -0.00145     0.01292   -20.98789


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.02
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.86
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    17.07
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-8-7.8
                                      THIS ANALYSIS IS FOR TOTAL BRAIN INFARCTINS
                                        WOMEN   66-69   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 245         NUMBER OF CASES (N1) =    6        TOTAL NUMBER BEFORE EXCLUSIONS =  352

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.        STND DEV         DISCRIMINANT          STANDARD ERROR       T
                  (CASES)       (NON-CASES)                               OF VARIABLE       COEFFICIENT           OF COEFFICIENT
 1      FRW     100.50000       105.08163    -4.58163         0.39         17.81876        -0.03824426            0.02441527        -1.566
 2   SYSTOLIC   182.33333       152.39184    29.94150         6.78         27.82184         0.04591182            0.01549798         2.962
 3   CHOLSTRL   249.66667       266.99184   -17.32517         0.85         45.37069        -0.01104774            0.00920926        -1.200
   INTERCEPT                                                                               -4.60830778
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    10.20


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                                  VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            320.47955     137.97992    -111.75305                                      FRW        173.10000       162.60000       27.80000
 SYSTOLIC          137.97992     775.05474      31.07382                                   SYSTOLIC      162.60000       725.46667     -159.46667
 CHOLSTRL         -111.75305      31.07382    2079.84628                                   CHOLSTRL       27.80000      -159.46667     1021.06667


 POOLED VARIANCE-COVARIANCE MATRIX                                                         POOLED CORRELATION MATRIX
    FRW            317.50819     138.47630    -108.93948                                      FRW          1.00000         0.27933       -0.13475
 SYSTOLIC          138.47630     774.05499      27.23228                                   SYSTOLIC        0.27933         1.00000        0.02157
 CHOLSTRL         -108.93948      27.23228    2058.49991                                   CHOLSTRL       -0.13475         0.02157        1.00000


                                                       SUMMARY OF EXAMS 2,4,AND 6

                      NO + N1     NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)      AVG X(1)        DIFF         BETA*     STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2           0          0      0        0.0             0.0             0.0           0.0            0.0        0.00167     0.0           0.0
 AT EXAM NO.4          44         44      0      355.07981         0.0          109.38636        0.0         -109.3864    -0.30708     0.00895      38.06401
 AT EXAM NO.6         207        201      6      313.04050      173.10000       104.13930     100.50000        -3.6393    -0.03213     0.02454      -4.59425

 SYSTOLIC

 AT EXAM NO.2           0          0      0        0.0             0.0             0.0           0.0            0.0       -0.05660     0.0           0.0
 AT EXAM NO.4          44         44      0      785.01480         0.0          148.09091        0.0         -148.0909    -0.05758     0.00606      38.06401
 AT EXAM NO.6         207        201      6      772.91333      725.46667       153.33333     182.33333        29.0000     0.04250     0.01539      -4.59425

 CHOLSTRL

 AT EXAM NO.2           0          0      0        0.0             0.0             0.0           0.0            0.0       -0.02161     0.0           0.0
 AT EXAM NO.4          44         44      0     1664.66385         0.0          257.18182        0.0         -257.1818    -0.16167     0.00379      38.06401
 AT EXAM NO.6         207        201      6     2169.11050     1021.06667       269.13930     249.66667       -19.4726    -0.01065     0.00904      -4.59425


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 = 3682.64
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    9.07
                                                                                                                    * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-B-8.5
                              THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                 WOMEN   54-57   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 857          NUMBER OF CASES (N1) =   5         TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                 AVG X(1)        AVG X(0)      DIFF         CHI SQ.       STND DEV         DISCRIMINANT          STANDARD ERROR        T
                 (CASES)        (NON-CASES)                              OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1      FRW     116.40000       106.16336    10.23664          1.68       17.61332          0.03495940           0.02690644         1.299
 2  SYSTOLIC    146.00000       143.66628     2.33372          0.04       25.79630         -0.00688851           0.01842852        -0.374
 3  CHOLSTRL    298.80000       260.40723    38.39277          3.45       46.06245          0.01804944           0.00977114         1.847
  INTERCEPT                                                                              -13.08334398
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.14


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW           310.42043      146.50047       22.66915                     FRW       228.50000      248.50000    -146.50000
 SYSTOLIC         146.50047      666.21811       99.90953                  SYSTOLIC     248.50000      337.00000    -268.50000
 CHOLSTRL          22.66915       99.90953     2126.08008                  CHOLSTRL    -146.50000     -268.50000     272.50000


 POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
    FRW           310.22903      146.73879       22.27389                     FRW         1.00000        0.32296       0.02745
 SYSTOLIC         146.73879      665.44891       99.04876                  SYSTOLIC       0.32296        1.00000       0.08336
 CHOLSTRL          22.27389       99.04876     2121.74928                  CHOLSTRL       0.02745        0.08336       1.00000


                                             SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

 AT EXAM NO.2    288       286     2       297.95937      144.50000      107.34266    134.50000      27.1573     0.08825     0.04280   -26.02133
 AT EXAM NO.4    291       289     2       321.78518      312.50000      106.61938    103.50000      -3.1194    -0.00703     0.04180    -5.99374
 AT EXAM NO.6    283       282     1       311.41103        0.0          104.50000    106.00000       1.5000     0.02428     0.06130    -5.09430

 SYSTOLIC

 AT EXAM NO.2    288       286     2       733.88531      512.00000      148.95105    166.00000      17.0490     0.00526     0.02729   -26.02133
 AT EXAM NO.4    291       289     2       669.63069      162.00000      143.37370    139.00000      -4.3737    -0.00735     0.02924    -5.99374
 AT EXAM NO.6    283       282     1       594.09007        0.0          138.60638    120.00000     -18.6064    -0.03898     0.04447    -5.09430

 CHOLSTRL

 AT EXAM NO.2    288       286     2      2139.73417      544.50000      254.20280    325.50000      71.2972     0.03298     0.01538   -26.02133
 AT EXAM NO.4    291       289     2      2240.48361        0.50000      260.81661    282.50000      21.6834     0.01029     0.01514    -5.99374
 AT EXAM NO.6    283       282     1      1994.97818        0.0          266.28014    278.00000      11.7199     0.00712     0.02250    -5.09430


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     9.61
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.55
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.84

                                                                                                             * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-B-8.6
                           THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                               WOMEN  58-61  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 758        NUMBER OF CASES (N1) =    7        TOTAL NUMBER BEFORE EXCLUSIONS =  985

               AVG X(1)      AVG X(0)      DIFF         CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR       T
               (CASES)      (NON-CASES)                               OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1     FRW      99.71429      106.72427   -7.00999          1.00       18.44239          -0.01729079          0.02175234        -0.795
2  SYSTOLIC   141.14286      149.09894   -7.95609          0.62       26.50885          -0.00745815          0.01513692        -0.493
3  CHOLSTRL   261.57143      262.67678   -1.10535          0.00       45.21437          -0.00064379          0.00842759        -0.076
  INTERCEPT                                                                             -1.64894274
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.26


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            341.70289     156.12909     -38.76107                          FRW         41.66667    -109.50000     -45.50000
SYSTOLIC          156.12909     701.57496      64.40826                       SYSTOLIC     -109.50000     918.66667    -452.66667
CHOLSTRL          -38.76107      64.40826    2042.10133                       CHOLSTRL      -45.50000    -452.66667    2466.66667


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW            340.12167     154.72920     -38.79658                          FRW          1.00000       0.31649      -0.04653
SYSTOLIC          154.72920     702.71906      61.68323                       SYSTOLIC      0.31649       1.00000       0.05146
CHOLSTRL          -38.79658      61.68323    2044.33883                       CHOLSTRL     -0.04653       0.05146       1.00000


                                                SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      247      244     3     379.15623       61.00000     106.98770    121.00000     14.0123     0.04772     0.03176    -4.56531
AT EXAM NO.4      257      256     1     318.87230        0.0         107.57812     85.00000    -22.5781    -0.05140     0.05914     5.75534
AT EXAM NO.6      261      258     3     328.94272       22.33333     105.62791     83.33333    -22.2946    -0.08369     0.03422    -2.79534

SYSTOLIC

AT EXAM NO.2      247      244     3     781.54793        9.33333     152.72951    138.66667    -14.0628    -0.02856     0.02187    -4.56531
AT EXAM NO.4      257      256     1     776.00452        0.0         148.60547    110.00000    -38.6055    -0.03919     0.03791     5.75534
AT EXAM NO.6      261      258     3     552.10817     1828.00000     146.15504    154.00000      7.8450     0.03394     0.02669    -2.79534

CHOLSTRL

AT EXAM NO.2      247      244     3    2059.25823     2994.33333     257.25000    243.33333    -13.9167    -0.00444     0.01296    -4.56531
AT EXAM NO.4      257      256     1    1901.82388        0.0         262.82422    252.00000    -10.8242    -0.00499     0.02298     5.75534
AT EXAM NO.6      261      258     3    2165.06484     1939.00000     267.66279    283.00000     15.3372     0.00419     0.01279    -2.79534


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.36
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.72
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     6.51
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                   TABLE 23-B-8.7
                     THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                         WOMEN  62-65  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 502        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS =  680

               AVG X(1)        AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR      T
               (CASES)        (NON-CASES)                           OF VARIABLE       COEFFICIENT        OF COEFFICIENT
1     FRW     124.45455       106.62351   17.83104        11.14      17.52544          0.05541222          0.01775422       3.121
2  SYSTOLIC   162.54545       151.63347   10.91199         1.92      25.83369          0.00887521          0.01205002       0.737
3  CHOLSTRL   267.00000       264.56175    2.43825         0.04      42.75369          0.00139141          0.00713301       0.195
  INTERCEPT                                                                          -11.98699085
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   11.71


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           300.89639       83.07937     -10.79810                      FRW      653.38095     524.00000      801.01587
SYSTOLIC          83.07937      657.64279     -33.18309                   SYSTOLIC    524.00000    1207.22222      -91.66667
CHOLSTRL         -10.79810      -33.18309    1801.75643                   CHOLSTRL    801.01587     -91.66667     3276.19048


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW           307.14120       90.89095       3.58443                      FRW        1.00000       0.20075        0.00478
SYSTOLIC          90.89095      667.37944     -34.21921                   SYSTOLIC      0.20075       1.00000       -0.03098
CHOLSTRL           3.58443      -34.21921    1827.87829                   CHOLSTRL      0.00478      -0.03098        1.00000

                                          SUMMARY OF EXAMS 2,4,AND 6

              NO + N1     NO     N1    VARIANCE X(0)   VARIANCE X(1)     AVG X(0)     AVG X(1)        DIFF        BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     48       48      0     452.06915          0.0          113.12500       0.0        -113.1250    -0.19335     0.00684    51.82768
AT EXAM NO.4    226      222      4     328.44085       840.33333       106.51802   119.50000       12.9820     0.03176     0.02859    -6.15540
AT EXAM NO.6    239      232      7     243.78624       559.90476       105.37931   127.28571       21.9064     0.08475     0.02438   -16.47751

SYSTOLIC

AT EXAM NO.2     48       48      0     542.46809          0.0          155.50000       0.0        -155.5000    -0.30909     0.00637    51.82768
AT EXAM NO.4    226      222      4     747.92526      2811.00000       153.49099   170.50000       17.0090     0.01571     0.01880    -6.15540
AT EXAM NO.6    239      232      7     594.70247       405.33333       149.05603   158.00000        8.9440     0.00836     0.01592   -16.47751

CHOLSTRL

AT EXAM NO.2     48       48      0    1935.09043          0.0          252.87500       0.0        -252.8750    -0.16396     0.00331    51.82768
AT EXAM NO.4    226      222      4    1629.68155      1396.66667       260.21622   233.00000      -27.2162    -0.01620     0.01251    -6.15540
AT EXAM NO.6    239      232      7    1939.25362      4215.95238       271.13793   286.42857       15.2906     0.00658     0.00859   -16.47751


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 5347.09
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.40
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =   13.81
                                                                                              * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-8.8
                                      THIS ANALYSIS IS FOR INTERMITTENT CLAUDICATION
                                         WOMEN  66-69  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 244        NUMBER OF CASES (N1) =   5        TOTAL NUMBER BEFORE EXCLUSIONS =  352

                  AVG X(1)        AVG X(0)       DIFF          CHI SQ.        STND DEV          DISCRIMINANT          STANDARD ERROR        T
                   (CASES)      (NON-CASES)                                  OF VARIABLE        COEFFICIENT           OF COEFFICIENT
1      FRW       102.20000       105.32787     -3.12787          0.14         18.59640          -0.01688691            0.02552354         -0.662
2  SYSTOLIC      173.20000       152.70082     20.49918          2.64         27.91570           0.02882291            0.01684868          1.711
3  CHOLSTRL      292.00000       265.81557     26.18443          1.70         44.51631           0.01173994            0.01026925          1.143
 INTERCEPT                                                                                    -10.10654232
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     4.66


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW            347.53887     147.16270    -113.58189                              FRW       242.20000    -271.80000    -112.50000
SYSTOLIC          147.16270     779.38679      33.23414                           SYSTOLIC    -271.80000     773.20000     126.50000
CHOLSTRL         -113.58189      33.23414    2003.44106                           CHOLSTRL    -112.50000     126.50000     666.50000


POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW            345.82605     140.35030    -113.56429                              FRW         1.00000       0.27036      -0.13718
SYSTOLIC          140.35030     779.28619      34.75066                           SYSTOLIC      0.27036       1.00000       0.02796
CHOLSTRL         -113.56429      34.75066    1981.70218                           CHOLSTRL     -0.13718       0.02796       1.00000


                                                      SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2         0        0     0        0.0            0.0             0.0          0.0            0.0      -0.19335    0.0          0.0
AT EXAM NO.4        44       44     0    353.17970          0.0         109.27273        0.0         -109.2727   -0.33805    0.00920     40.32127
AT EXAM NO.6       205      200     5    346.32000      242.20000       104.46000    102.20000        -2.2600   -0.01254    0.02534     -9.87896

SYSTOLIC

AT EXAM NO.2         0        0     0        0.0            0.0             0.0          0.0            0.0      -0.30909    0.0          0.0
AT EXAM NO.4        44       44     0    774.06342          0.0         148.72727        0.0         -148.7273   -0.03443    0.00627     40.32127
AT EXAM NO.6       205      200     5    780.53706      773.20000       153.57500    173.20000        19.6250    0.02717    0.01668     -9.87896

CHOLSTRL

AT EXAM NO.2         0        0     0        0.0            0.0             0.0          0.0            0.0      -0.16396    0.0          0.0
AT EXAM NO.4        44       44     0   1548.12051          0.0         255.13636        0.0         -255.1364   -0.18089    0.00403     40.32127
AT EXAM NO.6       205      200     5   2101.82691      666.50000       268.16500    292.00000        23.8350    0.01088    0.01004     -9.87896


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 = 3881.28
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.00
                                                                                                              * DISCRIMINANT COEFFICIENT
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                                          TABLE 23-B-9.5
                              THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                   WOMEN   54-57   EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 862        NUMBER OF CASES (N1) =   5       TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                 AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR        T
                 (CASES)     (NON-CASES)                            OF VARIABLE       COEFFICIENT        OF COEFFICIENT
 1      FRW     120.20000     106.11021   14.08979        3.18       17.62394         0.02214811          0.02683509        0.825
 2  SYSTOLIC    180.00000     143.47216   36.52784        9.94       25.83405         0.05035484          0.01837902        2.740
 3  CHOLSTRL    262.20000     261.29698    0.90302        0.00       46.53198        -0.00246582          0.00968141       -0.255
   INTERCEPT                                                                        -15.15475745
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    10.68


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW            311.17211     144.83332      24.44246                           FRW          66.33333      -23.33333      479.16667
 SYSTOLIC          144.83332     668.93258     113.41451                        SYSTOLIC       -23.33333        8.33333     -174.16667
 CHOLSTRL           24.44246     113.41451    2161.62276                        CHOLSTRL       479.16667     -174.16667     3712.33333

 POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
    FRW            310.60338     144.44269      25.49873                           FRW           1.00000        0.31725        0.03109
 SYSTOLIC          144.44269     667.39809     112.74649                        SYSTOLIC         0.31725        1.00000        0.09379
 CHOLSTRL           25.49873     112.74649    2165.22487                        CHOLSTRL         0.03109        0.09379        1.00000

                                                        SUMMARY OF EXAMS 2,4,AND 6

                     NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*     STND ERR B   INTERCEPT

    FRW

 AT EXAM NO.2      290      287     3     305.21259       66.33333     107.55749   119.33333     11.7758     0.02178     0.03460    -14.92714
 AT EXAM NO.4      291      290     1     317.21944        0.0         106.64483   133.00000     26.3552     0.07140     0.05915    -26.26171
 AT EXAM NO.6      286      285     1     311.01982        0.0         104.10877   110.00000      5.8912    -0.01697     0.06155     -5.83866

 SYSTOLIC

 AT EXAM NO.2      290      287     3     752.78543        8.33333     149.17073   181.66667     32.4959     0.03923     0.02207    -14.92714
 AT EXAM NO.4      291      290     1     664.40143        0.0         143.11724   175.00000     31.8828     0.02631     0.04122    -26.26171
 AT EXAM NO.6      286      285     1     589.10015        0.0         138.09474   180.00000     41.9053     0.08524     0.04483     -5.83866

 CHOLSTRL

 AT EXAM NO.2      290      287     3    2135.78931     3712.33333     254.93380   269.66667     14.7329     0.00536     0.01255    -14.92714
 AT EXAM NO.4      291      290     1    2393.69699        0.0         262.22414   330.00000     67.7759     0.02651     0.02067    -26.26171
 AT EXAM NO.6      286      285     1    1951.47808        0.0         266.76140   172.00000    -94.7614    -0.05267     0.02280     -5.83866


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.78
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.50
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.43
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-8-10.5
                                         THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                           WOMEN  54-57  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 854          NUMBER OF CASES (N1) =  21          TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                  AVG X(1)        AVG X(0)       DIFF         CHI SQ.       STND DEV          DISCRIMINANT          STANDARD ERROR       T
                  (CASES)       (NON-CASES)                                OF VARIABLE         COEFFICIENT          OF COEFFICIENT
 1      FRW      108.57143       106.15222      2.41920         0.38        17.70895          -0.00368880            0.01318227       -0.280
 2  SYSTOLIC     158.95238       143.40047     15.55191         7.41        25.85898           0.02367264            0.00906125        2.613
 3  CHOLSTRL     268.47619       260.70258      7.77361         0.57        46.64464           0.00240442            0.00475602        0.506
   INTERCEPT                                                                                  -7.52430194
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   7.75


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                        VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           311.18013       147.87445      22.69827                           FRW        428.34806      162.01431      302.77399
 SYSTOLIC        147.87445       661.78894     119.90890                         SYSTOLIC     162.01431      994.79882     -269.96717
 CHOLSTRL         22.69827       119.90890    2103.26932                         CHOLSTRL     302.77399     -269.96717     5601.16288

 POOLED VARIANCE-COVARIANCE MATRIX                                               POOLED CORRELATION MATRIX
   FRW           313.60708       148.16733      28.49961                           FRW          1.00000        0.32356        0.03450
 SYSTOLIC        148.16733       668.68673     111.83321                         SYSTOLIC       0.32356        1.00000        0.09272
 CHOLSTRL         28.49961       111.83321    2175.72281                         CHOLSTRL       0.03450        0.09272        1.00000

                                                     SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2     292     286     6     304.01159      297.46667    107.68881   111.33333       3.6445    -0.00594     0.02465    -9.49054
 AT EXAM NO.4     295     284    11     314.19234      569.61818    106.59507   107.72727       1.1322     0.00136     0.01804    -6.69020
 AT EXAM NO.6     288     284     4     315.38710      175.58333    104.16197   106.75000       2.5880    -0.01288     0.03077    -6.02996

 SYSTOLIC

 AT EXAM NO.2     292     286     6     754.81096      838.56667    149.14336   179.16667      30.0233     0.04092     0.01564    -9.49054
 AT EXAM NO.4     295     284    11     643.06311     1270.25455    143.06338   147.36364       4.3003     0.00365     0.01268    -6.69020
 AT EXAM NO.6     288     284     4     586.83535      337.00000    137.95423   160.50000      22.5458     0.04447     0.02260    -6.02996

 CHOLSTRL

 AT EXAM NO.2     292     286     6    2143.13234     2286.80000    254.87762   254.00000      -0.8776    -0.00173     0.00892    -9.49054
 AT EXAM NO.4     295     284    11    2166.08281     8901.21818    260.87324   285.72727      24.8540     0.01011     0.00633    -6.69020
 AT EXAM NO.6     288     284     4    2000.31109      124.91667    266.39789   242.75000     -23.6479    -0.01379     0.01136    -6.02996


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    7.10
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    2.84
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    5.11
                                                                                                  * DISCRIMINANT COEFFICIENT
                                         TABLE 23-B- 10.6
                               THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                 WOMEN   58-61   EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (N0) = 759         NUMBER OF CASES (N1) =  19        TOTAL NUMBER BEFORE EXCLUSIONS =  985

               AVG X(1)      AVG X(0)      DIFF       CHI SQ.       STND DEV        DISCRIMINANT         STANDARD ERROR        T
               (CASES)     (NON-CASES)                             OF VARIABLE       COEFFICIENT         OF COEFFICIENT
1      FRW    102.52632    106.85507    -4.32876       1.01        18.50201        -0.01784709           0.01325336        -1.347
2  SYSTOLIC   152.15789    149.04611     3.11178       0.25        26.90164         0.00901625           0.00911860         0.989
3  CHOLSTRL   245.57895    263.46245   -17.88350       2.91        45.13963        -0.00941522           0.00516515        -1.823
  INTERCEPT                                                                         -0.78063687
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.07


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                       VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW          339.27902     157.53254     -44.63531                               FRW       486.22222      99.08681     206.18056
SYSTOLIC       157.53254     722.18669      78.67852                           SYSTOLIC       99.08681     795.13108    -522.89236
CHOLSTRL       -44.63531      78.67852    2039.40252                           CHOLSTRL      206.18056    -522.89236    1951.76389

POOLED VARIANCE-COVARIANCE MATRIX                                              POOLED CORRELATION MATRIX
  FRW          342.32448     156.32123     -39.43706                               FRW         1.00000       0.31407      -0.04722
SYSTOLIC       156.32123     723.69849      66.21073                           SYSTOLIC        0.31407       1.00000       0.05452
CHOLSTRL       -39.43706      66.21073    2037.58617                           CHOLSTRL       -0.04722       0.05452       1.00000

                                                 SUMMARY OF EXAMS 2,4,AND 6

              NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2    249      247    2     374.27883       98.00000     107.28745    88.00000    -19.2874    -0.08024    0.03912     0.48183
AT EXAM NO.4    263      255    8     308.35794      796.00000     107.85882   106.50000     -1.3588    -0.00753    0.02111    -1.44286
AT EXAM NO.6    266      257    9     336.32591      263.69444     105.44358   102.22222     -3.2214    -0.01183    0.01968    -0.52269

SYST

AT EXAM NO.2    249      247    2     758.87242     2888.00000     152.30769   176.00000     23.6923     0.04579    0.02689     0.48183
AT EXAM NO.4    263      255    8     846.45876      683.98214     148.95686   153.62500      4.6681     0.00740    0.01304    -1.44286
AT EXAM NO.6    266      257    9     563.63281      630.77778     146.00000   145.55556     -0.4444     0.00608    0.01546    -0.52269

CHOLSTRL

AT EXAM NO.2    249      247    2    2063.84194        2.00000     257.39676   224.00000    -33.3968    -0.02069    0.01592     0.48183
AT EXAM NO.4    263      255    8    1876.17415     2445.42857     263.64706   246.50000    -17.1471    -0.00914    0.00826    -1.44286
AT EXAM NO.6    266      257    9    2177.87090     1763.52778     269.10895   249.55556    -19.5534    -0.00959    0.00746    -0.52269


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     6.59
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.56
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     1.94
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-B-10.1
                                    THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                     WOMEN   38-41  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 860         NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS = 1042

                 AVG X(1)      AVG X(0)      DIFF       CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR        T
                 (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT        OF COEFFICIENT
 1    FRW        94.75000      98.57326    -3.82326       0.22       16.25135        -0.02411459         0.03233520       -0.746
 2  SYSTOLIC    128.00000     121.58721     6.41279       0.61       16.36066         0.03016982         0.03225306        0.935
 3  CHOLSTRL    220.75000     214.04767     6.70233       0.12       39.27256         0.00358641         0.01284690        0.279
   INTERCEPT                                                                         -7.58436413
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.23


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             263.72613     79.30410      40.00459                      FRW          427.00000      185.00000      288.00000
 SYSTOLIC           79.30410    267.41522      70.88030                    SYSTOLIC       185.00000      377.33333      228.33333
 CHOLSTRL           40.00459     70.88030    1545.39555                    CHOLSTRL       288.00000      228.33333      230.33333

 POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW             264.10628     79.55019      40.58199                      FRW            1.00000        0.29919        0.06359
 SYSTOLIC           79.55019    267.67115      71.24689                    SYSTOLIC         0.29919        1.00000        0.11089
 CHOLSTRL           40.58199     71.24689    1542.33370                    CHOLSTRL         0.06359        0.11089        1.00000

                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2     396     395     1     262.95466        0.0         99.21266    91.00000      -8.2127    -0.06066    0.06548   -13.54102
 AT EXAM NO.4     369     366     3     278.78468    427.00000       98.44536    96.00000      -2.4454    -0.01370    0.03663    -5.54686
 AT EXAM NO.6      99      99     0     210.74232        0.0         96.49495     0.0         -96.4949    -0.44554    0.00696    66.43605

 SYSTOLIC

 AT EXAM NO.2     396     395     1     276.06654        0.0        123.33671   142.00000      18.6633     0.08670    0.06394   -13.54102
 AT EXAM NO.4     369     366     3     272.91630    377.33333      120.28415   123.33333       3.0492     0.01477    0.03727    -5.54686
 AT EXAM NO.6      99      99     0     212.14471        0.0        119.42424     0.0        -119.4242    -0.45946    0.00696    66.43605

 CHOLSTRL

 AT EXAM NO.2     396     395     1    1597.58680        0.0        212.80000   228.00000      15.2000     0.00830    0.02507   -13.54102
 AT EXAM NO.4     369     366     3    1642.89890    230.33333      215.81967   218.33333       2.5137     0.00127    0.01471    -5.54686
 AT EXAM NO.6      99      99     0     972.41517        0.0        212.47475     0.0        -212.4747    -0.20802    0.00325    66.43605


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.24
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.24
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                              * DISCRIMINANT COEFFICIENT
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                                               TABLE 23-B-10.2
                                     THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                                       WOMEN  42-45   EXAMS 2,4, AND 6 POOLED

 NUMBER OF NON-CASES (NO) =1111        NUMBER OF CASES (N1) =   8        TOTAL NUMBER BEFORE EXCLUSIONS = 1340

              AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR        T
              (CASES)      (NON-CASES)                             OF VARIABLE      COEFFICIENT        OF COEFFICIENT
1     FRW    111.50000      99.99640    11.50360        3.62        17.04068        0.02776709         0.02188349          1.269
2  SYSTOLIC  141.00000     126.03780    14.96220        4.56        19.74725        0.02977273         0.01890097          1.575
3  CHOLSTRL  241.00000     225.72097    15.27903        1.09        41.17192        0.00649752         0.00868154          0.748
  INTERCEPT                                                                      -13.36138201
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.86


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          290.49923      100.72596      65.33760                             FRW        265.05000    246.60000     -19.45000
SYSTOLIC        100.72596      386.87980      86.13193                        SYSTOLIC      246.60000   1071.20000    -685.00000
CHOLSTRL         65.33760       86.13193    1686.54252                        CHOLSTRL      -19.45000   -685.00000    3597.45000

POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
   FRW          290.38491      101.38128      64.95670                             FRW          1.00000      0.30128       0.09258
SYSTOLIC        101.38128      389.95402      82.66772                        SYSTOLIC        0.30128      1.00000       0.10168
CHOLSTRL         64.95670       82.66772    1695.12701                        CHOLSTRL        0.09258      0.10168       1.00000

                                                  SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      366      364     2     274.23948      264.50000      99.87088    128.50000      28.6291     0.07765     0.04561   -22.96278
AT EXAM NO.4      380      378     2     316.38918      512.00000     100.94180     99.00000      -1.9418    -0.00822     0.04233    -4.95198
AT EXAM NO.6      373      369     4     280.01495      182.91667      99.15176    109.25000      10.0982     0.03025     0.03111   -12.93156

SYSTOLIC

AT EXAM NO.2      366      364     2     470.87151      338.00000     127.58516    173.00000      45.4148     0.08083     0.03444   -22.96278
AT EXAM NO.4      380      378     2     366.34192       98.00000     125.80688    127.00000       1.1931     0.00595     0.03943    -4.95198
AT EXAM NO.6      373      369     4     325.06946     1640.00000     124.74797    132.00000       7.2520     0.00834     0.02866   -12.93156

CHOLSTRL

AT EXAM NO.2      366      364     2    1467.51134     6962.00000     221.23077    215.00000      -6.2308    -0.01493     0.01874   -22.96278
AT EXAM NO.4      380      378     2    1836.47993     4140.50000     226.27249    224.50000      -1.7725    -0.00098     0.01654    -4.95198
AT EXAM NO.6      373      369     4    1748.99337     2294.91667     229.58537    262.25000      32.6646     0.01701     0.01218   -12.93156


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    11.91
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.05
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     3.65
                                                                                                           * DISCRIMINANT COEFFICIENT
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                                         TABLE 23-B-10.3
                              THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                               WOMEN  46-49  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) =1018        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS = 1249

                  AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR       T
                  (CASES)      (NON-CASES)                            OF VARIABLE       COEFFICIENT         OF COEFFICIENT
 1      FRW      107.27273     102.37132     4.90141        0.84       17.63262         0.01402871          0.01807865        0.776
 2  SYSTOLIC     134.72727     131.55697     3.17030        0.23       22.00828         0.00092143          0.01457381        0.063
 3  CHOLSTRL     257.81818     239.88310    17.93508        1.64       46.17241         0.00800308          0.00662286        1.208
   INTERCEPT                                                                           -8.11247131
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     2.34


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             308.95102     116.82027      49.62675                             FRW      559.35714     473.82143     566.89286
 SYSTOLIC           116.82027     481.67383     124.82412                          SYSTOLIC    473.82143     825.71429     875.92857
 CHOLSTRL            49.62675     124.82412    2134.75507                          CHOLSTRL    566.89286     875.92857    1768.60714

 POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
    FRW             310.90923     119.61207      53.67185                             FRW        1.00000       0.30823       0.06592
 SYSTOLIC           119.61207     484.36427     130.69786                          SYSTOLIC      0.30823       1.00000       0.12862
 CHOLSTRL            53.67185     130.69786    2131.89174                          CHOLSTRL      0.06592       0.12862       1.00000

                                                  SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1     NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2        316      313      3      289.91593      849.00000      104.30032    94.00000    -10.3003   -0.02815     0.03614    0.06357
 AT EXAM NO.4        343      342      1      286.78424        0.0          101.48538   113.00000     11.5146    0.04812     0.06139   -9.59533
 AT EXAM NO.6        370      363      7      346.23781      462.80952      101.54270   112.14286     10.6002    0.02353     0.02160  -10.83814

 SYSTOLIC

 AT EXAM NO.2        316      313      3      489.41665     1596.00000      135.38339   124.00000    -11.3834   -0.01545     0.02785    0.06357
 AT EXAM NO.4        343      342      1      505.18444        0.0          130.01754   120.00000    -10.0175   -0.03244     0.04655   -9.59533
 AT EXAM NO.6        370      363      7      452.85372      568.95238      129.70799   141.42857     11.7206    0.01647     0.01907  -10.83814

 CHOLSTRL

 AT EXAM NO.2        316      313      3     2124.22776     4732.00000      233.74760   232.00000     -1.7476    0.00036     0.01259    0.06357
 AT EXAM NO.4        343      342      1     1825.36489        0.0          239.48538   258.00000     18.5146    0.01068     0.02382   -9.59533
 AT EXAM NO.6        370      363      7     2435.27046      780.80952      245.54821   268.85714     23.3089    0.00833     0.00785  -10.83814


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.38
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.07
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     4.37
                                                                                                    * DISCRIMINANT COEFFICIENT
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TABLE 23-B-10.4

THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES

WOMEN 50-53 EXAMS 2,4, AND 6 POOLED

NUMBER OF NON-CASES (NO) = 927 NUMBER OF CASES (N1) = 23 TOTAL NUMBER BEFORE EXCLUSIONS = 1151

		AVG X(1) (CASES)	AVG X(0) (NON-CASES)	DIFF	CHI SQ.	STND DEV OF VARIABLE	DISCRIMINANT COEFFICIENT	STANDARD ERROR OF COEFFICIENT	T
1	FRW	105.69565	104.23625	1.45941	0.15	17.58992	0.00639432	0.01258675	0.508
2	SYSTOLIC	137.21739	139.06365	-1.84625	0.13	24.70702	-0.00343785	0.00903738	-0.380
3	CHOLSTRL	243.43478	251.60410	-8.16932	0.80	43.31839	-0.00415234	0.00491645	-0.845
	INTERCEPT						-2.86495349		

CHI SQ. VALUE FOR GENERALIZED DISTANCE(3 DF) = 1.11

VARIANCE-COVARIANCE MATRIX FOR NON-CASES

FRW	305.02968	125.32189	23.87664
SYSTOLIC	125.32189	608.03756	152.38914
CHOLSTRL	23.87664	152.38914	1869.10404

VARIANCE-COVARIANCE MATRIX FOR CASES

FRW	511.55810	387.35286	-317.56238
SYSTOLIC	387.35286	721.29071	-396.17643
CHOLSTRL	-317.56238	-396.17643	2217.38952

POOLED VARIANCE-COVARIANCE MATRIX

FRW	309.40529	130.87339	16.64276
SYSTOLIC	130.87339	610.43699	140.76699
CHOLSTRL	16.64276	140.76699	1876.48297

POOLED CORRELATION MATRIX

FRW	1.00000	0.30114	0.02184
SYSTOLIC	0.30114	1.00000	0.13152
CHOLSTRL	0.02184	0.13152	1.00000

SUMMARY OF EXAMS 2,4,AND 6

	NO + N1	NO	N1	VARIANCE X(0)	VARIANCE X(1)	AVG X(0)	AVG X(1)	DIFF	BETA*	STND ERR B	INTERCEPT
FRW											
AT EXAM NO.2	323	316	7	348.85902	802.90476	106.85759	103.28571	-3.5719	-0.01232	0.02087	-2.88050
AT EXAM NO.4	300	294	6	311.15372	75.46667	105.08163	110.33333	5.2517	0.01795	0.02538	-4.58592
AT EXAM NO.6	327	317	10	255.66074	559.60000	100.83912	104.60000	3.7609	0.02223	0.02081	-1.96540
SYSTOLIC											
AT EXAM NO.2	323	316	7	739.39412	1356.61905	144.86392	147.57143	2.7075	0.00639	0.01467	-2.88050
AT EXAM NO.4	300	294	6	593.80057	546.80000	138.28231	140.00000	1.7177	-0.00178	0.01827	-4.58592
AT EXAM NO.6	327	317	10	490.29743	394.67778	134.00631	128.30000	-5.7063	-0.01443	0.01544	-1.96540
CHOLSTRL											
AT EXAM NO.2	323	316	7	2038.49101	2362.47619	246.88291	243.85714	-3.0258	-0.00232	0.00863	-2.88050
AT EXAM NO.4	300	294	6	1888.65776	3563.76667	251.96939	244.16667	-7.8027	-0.00400	0.00942	-4.58592
AT EXAM NO.6	327	317	10	1682.12261	1372.67778	255.97161	242.70000	-13.2716	-0.00755	0.00797	-1.96540

CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 0.47
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 = 0.72
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = 2.58

* DISCRIMINANT COEFFICIENT

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                                        TABLE 23-B-9.6
                          THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                WOMEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 760        NUMBER OF CASES (N1) =  9       TOTAL NUMBER BEFORE EXCLUSIONS =  985

                 AVG X(1)       AVG X(0)     DIFF         CHI SQ.       STND DEV       DISCRIMINANT        STANDARD ERROR       T
                 (CASES)       (NON-CASES)                              OF VARIABLE     COEFFICIENT         OF COEFFICIENT
 1     FRW      123.00000      106.52895   16.47105         7.12        18.41306        0.02588592          0.01912439        1.354
 2  SYSTOLIC    186.66667      148.72368   37.94298        18.09        26.60742        0.04956808          0.01325051        3.741
 3  CHOLSTRL    239.44444      263.53289  -24.08845         2.55        44.96924       -0.01330938          0.00748181       -1.779
   INTERCEPT                                                                          -12.37204706
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   23.37


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW              331.31319    145.37997    -30.07285                       FRW      1313.98611    395.16667     57.33333
 SYSTOLIC           145.37997    699.35977     77.53746                     SYSTOLIC    395.16667   1792.33333   -580.50000
 CHOLSTRL           -30.07285     77.53746   2020.00022                     CHOLSTRL     57.33333   -580.50000   2303.91667

 POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW              339.04063    147.34422    -29.38552                       FRW         1.00000      0.30075     -0.03549
 SYSTOLIC           147.34422    707.95458     72.36286                     SYSTOLIC      0.30075      1.00000      0.06048
 CHOLSTRL           -29.38552     72.36286   2022.23286                     CHOLSTRL     -0.03549      0.06048      1.00000

                                          SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1   NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF      BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2     248      246    2     370.75429     1624.50000     107.02846   109.50000      2.4715   -0.01648    0.03879    -1.68850
 AT EXAM NO.4     260      256    4     287.97511     1791.58333     107.14453   137.75000     30.6055    0.08974    0.03012   -13.67737
 AT EXAM NO.6     261      258    3     336.71451      442.33333     105.44186   112.33333      6.8915   -0.02243    0.03352   -19.62761

 SYSTOLIC

 AT EXAM NO.2     248      246    2     762.74135     2738.00000     152.34553   175.00000     22.6545    0.03016    0.02677    -1.68850
 AT EXAM NO.4     260      256    4     794.76739     2664.00000     148.53516   184.00000     35.4648    0.02984    0.01842   -13.67737
 AT EXAM NO.6     261      258    3     544.27249       12.00000     145.45736   198.00000     52.5426    0.10326    0.02705   -19.62761

 CHOLSTRL

 AT EXAM NO.2     248      246    2    2010.75469      924.50000     257.97967   203.50000    -54.4797   -0.02720    0.01607    -1.68850
 AT EXAM NO.4     260      256    4    1891.92952      505.00000     263.79297   219.50000    -44.2930   -0.02661    0.01166   -13.67737
 AT EXAM NO.6     261      258    3    2155.88811     5692.00000     268.56977   290.00000     21.4302   -0.00042    0.01271   -19.62761


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.21
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    19.63
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    15.60
                                                                                           * DISCRIMINANT COEFFICIENT
                                        TABLE 23-B-9.7
                           THIS ANALYSIS IS FOR CONGESTIVE HEART FAILURE
                                WOMEN  62-65  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 507        NUMBER OF CASES (N1) =  9        TOTAL NUMBER BEFORE EXCLUSIONS =  680

               AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT      STANDARD ERROR       T
               (CASES)      (NON-CASES)                            OF VARIABLE     COEFFICIENT      OF COEFFICIENT
 1    FRW     113.11111     106.85404     6.25707        1.12       17.61229        0.01309573        0.01949493       0.672
 2  SYSTOLIC  167.33333     151.17554    16.15779        3.46       25.81311        0.02274738        0.01330070       1.710
 3  CHOLSTRL  275.88889     264.54832    11.34057        0.62       42.78820        0.00640168        0.00786637       0.814
  INTERCEPT                                                                      -10.82406267
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     4.62


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                              VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW          302.56172     83.07540      27.91437                     FRW         951.19444      717.38889     -547.41667
 SYSTOLIC         83.07540    655.93224     -23.96909                  SYSTOLIC       717.38889     1538.61111     -440.66667
 CHOLSTRL         27.91437    -23.96909    1822.73818                  CHOLSTRL      -547.41667     -440.66667     2510.58333

 POOLED VARIANCE-COVARIANCE MATRIX                                     POOLED CORRELATION MATRIX
    FRW          310.19269     90.53791      21.14577                     FRW           1.00000        0.19915        0.02806
 SYSTOLIC         90.53791    666.31670     -28.87142                  SYSTOLIC         0.19915        1.00000       -0.02614
 CHOLSTRL         21.14577    -28.87142    1830.83048                  CHOLSTRL         0.02806       -0.02614        1.00000


                                            SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

     FRW

 AT EXAM NO.2      49       47     2     430.41258     1104.50000    113.97872    98.50000    -15.4787   -0.03478     0.03476    -2.82017
 AT EXAM NO.4     229      225     4     330.22036     1131.33333    106.61333   115.00000      8.3867    0.01611     0.02835    -8.59278
 AT EXAM NO.6     238      235     3     250.95199      604.33333    105.65957   120.33333     14.6738    0.04782     0.03683   -20.02154

 SYSTOLIC

 AT EXAM NO.2      49       47     2     560.02775      242.00000    155.19149   151.00000     -4.1915    0.00212     0.03181    -2.82017
 AT EXAM NO.4     229      225     4     744.30754     2750.33333    152.97778   171.50000     18.5222    0.02106     0.01886    -8.59278
 AT EXAM NO.6     238      235     3     590.18669      369.33333    148.64681   172.66667     24.0199    0.03675     0.02413   -20.02154

 CHOLSTRL

 AT EXAM NO.2      49       47     2    1953.97687      312.50000    252.25532   274.50000     22.2447    0.01152     0.01683    -2.82017
 AT EXAM NO.4     229      225     4    1652.21992     1635.00000    260.35111   255.50000     -4.8511   -0.00248     0.01242    -8.59278
 AT EXAM NO.6     238      235     3    1960.17029     4923.00000    271.02553   304.00000     32.9745    0.01514     0.01308   -20.02154


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     1.51
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.11
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     6.17
                                                                                                       * DISCRIMINANT COEFFICIENT
                                        TABLE 23-B-12.6
                              THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                                 WOMEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 770        NUMBER OF CASES (N1) =  8        TOTAL NUMBER BEFORE EXCLUSIONS =  985

                AVG X(1)     AVG X(0)      DIFF        CHI SQ.      STND DEV         DISCRIMINANT        STANDARD ERROR      T
                (CASES)     (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1     FRW      100.75000    106.81169    -6.06169        0.86       18.42312        -0.01825383          0.02033086      -0.898
2  SYSTOLIC    144.50000    149.17013    -4.67013        0.24       26.92206        -0.00167495          0.01391692      -0.120
3  CHOLSTRL    242.62500    263.23766   -20.61266        1.65       45.18969        -0.01037932          0.00789121      -1.315
 INTERCEPT                                                                           0.19864510
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    2.63


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW            339.79502    154.82355     -41.98524                      FRW         280.55000     -23.30000     620.30000
SYSTOLIC         154.82355    724.68541      68.02510                   SYSTOLIC       -23.30000     741.93333    -749.93333
CHOLSTRL         -41.98524     68.02510    2035.90040                   CHOLSTRL       620.30000    -749.93333    2994.33333

POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
  FRW            339.41131    153.66990     -37.69582                      FRW           1.00000       0.30983      -0.04528
SYSTOLIC         153.66990    724.79712      62.72744                   SYSTOLIC         0.30983       1.00000       0.05156
CHOLSTRL         -37.69582     62.72744    2042.10787                   CHOLSTRL        -0.04528       0.05156       1.00000

                                               SUMMARY OF EXAMS 2,4,AND 6

                NO + N1   NO   N1  VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    249      248   1     373.37232        0.0        107.23790    81.00000   -26.2379   -0.07691    0.05497     7.75586
AT EXAM NO.4    263      260   3     315.18141      637.00000    107.60769   126.00000    18.3923    0.06223    0.03434    -7.07357
AT EXAM NO.6    266      262   4     332.44380       42.91667    105.61832    86.75000   -18.8683   -0.05989    0.02944     2.78152

SYSTOLIC

AT EXAM NO.2    249      248   1     771.14660        0.0        152.55645   138.00000   -14.5565   -0.00557    0.03773     7.75586
AT EXAM NO.4    263      260   3     848.51100       69.33333    149.05000   153.33333     4.2833   -0.00635    0.02108    -7.07357
AT EXAM NO.6    266      262   4     557.83967     1190.33333    146.08397   139.50000    -6.5840    0.00667    0.02296     2.78152

CHOLSTRL

AT EXAM NO.2    249      248   1    2060.25702        0.0        257.25806   225.00000   -32.2581   -0.02166    0.02243     7.75586
AT EXAM NO.4    263      260   3    1883.22685     3033.33333    263.43077   236.66667   -26.7641   -0.01478    0.01336    -7.07357
AT EXAM NO.6    266      262   4    2164.35391     2968.33333    268.70611   251.50000   -17.2061   -0.00829    0.01106     2.78152


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    2.79
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    4.49
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    4.84
                                                                                                  * DISCRIMINANT COEFFICIENT
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                                   TABLE 23-B-12.7
                     THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                          WOMEN  62-65  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 518      NUMBER OF CASES (N1) =   7      TOTAL NUMBER BEFORE EXCLUSIONS =  680

               AVG X(1)     AVG X(0)     DIFF        CHI SQ.     STND DEV       DISCRIMINANT        STANDARD ERROR       T
               (CASES)    (NON-CASES)                            OF VARIABLE    COEFFICIENT         OF COEFFICIENT
1    FRW      114.57143    106.98263    7.58880        1.28      17.62993       0.00996950          0.02207924       0.452
2 SYSTOLIC    185.42857    151.24131   34.18726       12.29      25.63039       0.04992314          0.01518880       3.287
3 CHOLSTRL    230.28571    264.66409  -34.37838        4.44      42.89257      -0.01808611          0.00887576      -2.038
 INTERCEPT                                                                     -9.33640788
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   16.60


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          308.00137     95.82312      16.75002                        FRW        673.00000      -47.50000    -445.50000
SYSTOLIC         95.82312    631.03928     -20.87590                     SYSTOLIC      -47.50000     3988.66667    -523.33333
CHOLSTRL         16.75002    -20.87590    1839.79150                     CHOLSTRL     -445.50000     -523.33333    1837.33333

POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
   FRW          310.81447     94.71852      13.18740                        FRW          1.00000        0.20962       0.01744
SYSTOLIC         94.71852    656.91695     -24.74841                     SYSTOLIC        0.20962        1.00000      -0.02251
CHOLSTRL         13.18740    -24.74841    1839.77256                     CHOLSTRL        0.01744       -0.02251       1.00000

                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      49       48     1     452.06915        0.0         113.12500   124.00000    10.8750     0.00730    0.04815   -24.22313
AT EXAM NO.4     231      228     3     326.89358     1009.00000     106.47368   129.00000    22.5263     0.06125    0.03301    -9.68698
AT EXAM NO.6     245      242     3     262.11044      337.00000     106.24380    97.00000    -9.2438    -0.05092    0.03633    -6.70593

SYSTOLIC

AT EXAM NO.2      49       48     1     501.87234        0.0         154.00000   204.00000    50.0000     0.10083    0.04666   -24.22313
AT EXAM NO.4     231      228     3     750.22050     2501.33333     153.13158   174.66667    21.5351     0.01676    0.02178    -9.68698
AT EXAM NO.6     245      242     3     543.97169     5476.00000     148.91322   190.00000    41.0868     0.07633    0.02434    -6.70593

CHOLSTRL

AT EXAM NO.2      49       48     1    1937.42509        0.0         253.35417   244.00000    -9.3542     0.00578    0.02345   -24.22313
AT EXAM NO.4     231      228     3    1655.59881     1920.33333     260.14912   228.66667   -31.4825    -0.01883    0.01428    -9.68698
AT EXAM NO.6     245      242     3    1994.24363     1754.33333     271.16116   227.33333   -43.8278    -0.02184    0.01303    -6.70593


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.96
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     6.91
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    13.52
                                                                                             * DISCRIMINANT COEFFICIENT
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                                                  TABLE 23-B-11.6
                                           THIS ANALYSIS IS FOR CHD DEATH
                                          WOMEN  58-61  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 773        NUMBER OF CASES (N1) =   5        TOTAL NUMBER BEFORE EXCLUSIONS =  985

                 AVG X(1)        AVG X(0)      DIFF          CHI SQ.       STND DEV       DISCRIMINANT        STANDARD ERROR       T
                 (CASES)        (NON-CASES)                                OF VARIABLE    COEFFICIENT         OF COEFFICIENT
1     FRW        98.60000       106.80207    -8.20207          0.98        18.51081       -0.05078216         0.02562103       -1.982
2  SYSTOLIC     179.20000       148.92755    30.27245          6.35        26.77585        0.05480752         0.01772297        3.092
3  CHOLSTRL     239.00000       263.18111   -24.18111          1.42        45.18758       -0.01468951         0.00996890       -1.474
  INTERCEPT                                                                               -5.12899293
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   12.08


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                      VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW             341.20250    157.65362    -42.83856                           FRW         900.00000      60.00000   1470.00000
SYSTOLIC          157.65362    718.35912     71.39254                         SYSTOLIC       60.00000     173.00000   -461.00000
CHOLSTRL          -42.83856     71.39254   2036.18244                         CHOLSTRL     1470.00000    -461.00000   4250.00000


POOLED VARIANCE-COVARIANCE MATRIX                                             POOLED CORRELATION MATRIX
  FRW             342.65016    157.40063    -38.91929                           FRW           1.00000       0.31757     -0.04653
SYSTOLIC          157.40063    716.94627     70.01328                         SYSTOLIC        0.31757       1.00000      0.05787
CHOLSTRL          -38.91929     70.01328   2041.91772                         CHOLSTRL       -0.04653       0.05787      1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO     N1    VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     249      248     1       375.54994        0.0         107.18145     95.00000     -12.1815    -0.08210     0.05500   -10.39086
AT EXAM NO.4     263      261     2       314.10292     1800.00000     107.93103     93.00000     -14.9310    -0.07669     0.04198    -1.54001
AT EXAM NO.6     266      264     2       335.73509        0.0         105.32955    106.00000       0.6705    -0.00788     0.04117    -6.31784

SYSTOLIC

AT EXAM NO.2     249      248     1       756.62551        0.0         152.25000    214.00000      61.7500     0.09727     0.03822   -10.39086
AT EXAM NO.4     263      261     2       836.51762        8.00000     148.83142    184.00000      35.1686     0.05883     0.02602    -1.54001
AT EXAM NO.6     266      264     2       565.61004      338.00000     145.90152    157.00000      11.0985     0.02366     0.03237    -6.31784

CHOLSTRL

AT EXAM NO.2     249      248     1      2059.71836        0.0         257.26613    223.00000     -34.2661    -0.01931     0.02242   -10.39086
AT EXAM NO.4     263      261     2      1876.53876     4802.00000     263.43295    223.00000     -40.4330    -0.02227     0.01635    -1.54001
AT EXAM NO.6     266      264     2      2171.90101     3698.00000     268.48864    263.00000      -5.4886    -0.00495     0.01557    -6.31784


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.64
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     8.17
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.56
                                                                                                            * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-11.7
                                            THIS ANALYSIS IS FOR CHD DEATH
                                         WOMEN  62-65  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 517         NUMBER OF CASES (N1) =   8         TOTAL NUMBER BEFORE EXCLUSIONS =  680

                    AVG X(1)        AVG X(0)     DIFF         CHI SQ.        STND DEV         DISCRIMINANT          STANDARD ERROR        T
                    (CASES)       (NON-CASES)                               OF VARIABLE        COEFFICIENT          OF COEFFICIENT
 1      FRW        105.87500       107.10251   -1.22751          0.04        17.72103         -0.01066232            0.02057127       -0.518
 2  SYSTOLIC       163.12500       151.52031   11.60469          1.58        25.91026          0.01969514            0.01407591        1.399
 3  CHOLSTRL       289.62500       263.81238   25.81262          2.90        42.52201          0.01479853            0.00838749        1.764
   INTERCEPT                                                                                 -10.22670574
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     4.91


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                            VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW             312.10702     97.61392       8.97877                                FRW         512.23333     -28.73333     636.10000
 SYSTOLIC            97.61392    675.07296     -48.66127                             SYSTOLIC       -28.73333     287.73333     866.40000
 CHOLSTRL             8.97877    -48.66127    1785.05406                             CHOLSTRL       636.10000     866.40000    4179.43333


 POOLED VARIANCE-COVARIANCE MATRIX                                                   POOLED CORRELATION MATRIX
    FRW             314.03502     96.39670      15.02040                                FRW           1.00000       0.20994       0.01993
 SYSTOLIC            96.39670    671.34136     -39.84565                             SYSTOLIC         0.20994       1.00000      -0.03617
 CHOLSTRL            15.02040    -39.84565    1808.12130                             CHOLSTRL         0.01993      -0.03617       1.00000


                                                        SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)      AVG X(1)         DIFF        BETA*     STND ERR B  INTERCEPT
    FRW

 AT EXAM NO.2      49       46      3      432.36377       889.00000     113.76087     107.00000       -6.7609    -0.02383      0.02854   -27.32024
 AT EXAM NO.4     231      228      3      341.93500        49.33333     106.74561     108.33333        1.5877    -0.00668      0.03277    -6.00801
 AT EXAM NO.6     245      243      2      261.76608       684.50000     106.17695     100.50000       -5.6770    -0.02486      0.04427    -5.51190

 SYSTOLIC

 AT EXAM NO.2      49       46      3      568.72464       208.00000     154.82609     158.00000        3.1739     0.03928      0.02669   -27.32024
 AT EXAM NO.4     231      228      3      769.79834       342.33333     153.14474     173.66667       20.5219     0.02760      0.02183    -6.00801
 AT EXAM NO.6     245      243      2      605.99449       338.00000     149.37037     155.00000        5.6296     0.01176      0.02918    -5.51190

 CHOLSTRL

 AT EXAM NO.2      49       46      3     1241.49952      5497.33333     247.47826     340.33333       92.8551     0.07171      0.01638   -27.32024
 AT EXAM NO.4     231      228      3     1652.66085      3391.00000     259.93421     245.00000      -14.9342    -0.00837      0.01424    -6.00801
 AT EXAM NO.6     245      243      2     2010.31527      3120.50000     270.54321     280.50000        9.9568     0.00541      0.01584    -5.51190

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 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    19.56
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     2.02
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.52
                                                                                                           * DISCRIMINANT COEFFICIENT
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                                                TABLE 23-B-11.8
                                         THIS ANALYSIS IS FOR CHD DEATH
                                      WOMEN  66-69  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 254          NUMBER OF CASES (N1) =   6         TOTAL NUMBER BEFORE EXCLUSIONS =  352

                AVG X(1)      AVG X(0)      DIFF          CHI SQ.       STND DEV        DISCRIMINANT        STANDARD ERROR        T
                 (CASES)     (NON-CASES)                               OF VARIABLE      COEFFICIENT         OF COEFFICIENT
 1     FRW     104.66667     105.47638    -0.80971        0.01          18.76132       -0.01418988           0.02324583        -0.610
 2  SYSTOLIC   177.00000     152.98425    24.01575        4.24          28.23411        0.03286465           0.01531197         2.146
 3  CHOLSTRL   284.33333     266.05118    18.28215        0.95          45.31286        0.00809850           0.00920375         0.880
  INTERCEPT                                                                            -9.90567589
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     5.56


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             356.41854     156.22529   -117.36503                      FRW         72.80000      74.20000      224.45000
 SYSTOLIC          156.22529     789.58346     11.29092                    SYSTOLIC      74.20000    1274.80000     -586.20000
 CHOLSTRL         -117.36503      11.29092   2040.15907                    CHOLSTRL     224.45000    -586.20000     2878.30000

 POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW             351.98700     154.94365   -112.02417                      FRW          1.00000       0.29251       -0.13177
 SYSTOLIC          154.94365     797.16497      1.95512                    SYSTOLIC       0.29251       1.00000        0.00153
 CHOLSTRL         -112.02417       1.95512   2053.25502                    CHOLSTRL      -0.13177       0.00153        1.00000

                                               SUMMARY OF EXAMS 2,4,AND 6

                  NO + N1     NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)        DIFF       BETA*     STND ERR B   INTERCEPT

     FRW

 AT EXAM NO.2       0         0     0       0.0            0.0           0.0          0.0            0.0      -0.02383     0.0            0.0
 AT EXAM NO.4      45        44     1     355.74366        0.0         109.47727    111.00000        1.5227   -0.04825     0.06112      -19.96434
 AT EXAM NO.6     215       210     5     356.55739       72.80000     104.63810    103.40000       -1.2381   -0.01114     0.02526       -7.88133

 SYSTOLIC

 AT EXAM NO.2       0         0     0       0.0            0.0           0.0          0.0            0.0       0.03928     0.0            0.0
 AT EXAM NO.4      45        44     1     711.81184        0.0         146.95455    204.00000       57.0455    0.09195     0.04314      -19.96434
 AT EXAM NO.6     215       210     5     805.58432     1274.80000     154.24762    171.60000       17.3524    0.02339     0.01644       -7.88133

 CHOLSTRL

 AT EXAM NO.2       0         0     0       0.0            0.0           0.0          0.0            0.0       0.07171     0.0            0.0
 AT EXAM NO.4      45        44     1    1621.36575        0.0         255.72727    303.00000       47.2727    0.01920     0.02582      -19.96434
 AT EXAM NO.6     215       210     5    2126.32228     2878.30000     268.21429    280.60000       12.3857    0.00544     0.00987       -7.88133


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.94
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.38
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                        TABLE 23-B-12.5
                              THIS ANALYSIS IS FOR OTHER CARDIOVASCULAR DEATHS
                                 WOMEN  54-57  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 869       NUMBER OF CASES (N1) =   6       TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)      AVG X(0)      DIFF        CHI SQ.     STND DEV       DISCRIMINANT      STANDARD ERROR        T
                 (CASES)     (NON-CASES)                            OF VARIABLE    COEFFICIENT       OF COEFFICIENT
 1   FRW        100.16667    106.25201    -6.08535        0.71      17.60890       -0.03551594       0.02459306         -1.444
 2  SYSTOLIC    160.83333    143.65593    17.17741        2.61      25.96302        0.03530460       0.01674321          2.109
 3  CHOLSTRL    237.66667    261.04948   -23.38282        1.49      46.69866       -0.01212038       0.00880987         -1.376
   INTERCEPT                                                                       -3.66262912
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    6.59


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW          310.58257    148.09954      23.77569                        FRW       163.05556     192.38889      468.94444
 SYSTOLIC        148.09954    672.33602     110.82838                     SYSTOLIC     192.38889    1177.05556      398.94444
 CHOLSTRL         23.77569    110.82838    2182.34771                     CHOLSTRL     468.94444     398.94444     1723.72222

 POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
    FRW          310.07327    148.25244      25.31252                        FRW         1.00000       0.32428        0.03078
 SYSTOLIC        148.25244    674.07844     111.82302                     SYSTOLIC       0.32428       1.00000        0.09223
 CHOLSTRL         25.31252    111.82302    2180.76443                     CHOLSTRL       0.03078       0.09223        1.00000

                                              SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)      DIFF      BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2    292      290    2     303.32710      220.50000    107.67586   120.50000    12.8241    0.02365    0.04242   -13.63420
 AT EXAM NO.4    295      292    3     315.90890      134.33333    106.92808    78.33333   -28.5947   -0.10686    0.03461     4.62638
 AT EXAM NO.6    288      287    1     312.49470        0.0        104.12544   125.00000    20.8746    0.06438    0.06131   -12.30070

 SYSTOLIC

 AT EXAM NO.2    292      290    2     768.29912        0.50000    149.51379   185.50000    35.9862    0.04339    0.02672   -13.63420
 AT EXAM NO.4    295      292    3     657.39993     1765.33333    143.18151   147.33333     4.1518    0.03465    0.02403     4.62638
 AT EXAM NO.6    288      287    1     590.56353        0.0        138.21951   152.00000    13.7805    0.00647    0.04467   -12.30070

 CHOLSTRL

 AT EXAM NO.2    292      290    2    2137.05768     4512.50000    254.91034   247.50000    -7.4103   -0.00521    0.01535   -13.63420
 AT EXAM NO.4    295      292    3    2418.27278      329.33333    262.18151   224.66667   -37.5148   -0.01782    0.01196     4.62638
 AT EXAM NO.6    288      287    1    1988.06318        0.0        266.10105   257.00000    -9.1010   -0.00639    0.02255   -12.30070


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    3.78
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =   11.49
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    1.49

                                                                                               * DISCRIMINANT COEFFICIENT
                                        TABLE 23-B-10.7
                              THIS ANALYSIS IS FOR DFATH FROM ALL CAUSES
                               WOMEN  62-65  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 499       NUMBER OF CASES (N1) =  26       TOTAL NUMBER BEFORE EXCLUSIONS =  680

              AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR      T
              (CASES)     (NON-CASES)                             OF VARIABLE    COEFFICIENT        OF COEFFICIENT
1     FRW    107.26923     107.07415    0.19508        0.00       17.62598      -0.00444439          0.01168376      -0.380
2  SYSTOLIC  161.50000     151.18637   10.31363        3.93       25.85898       0.01613219          0.00796878       2.024
3  CHOLSTRL  265.19231     264.15431    1.03800        0.01       42.64204       0.00099276          0.00472293       0.210
 INTERCEPT                                                                      -5.26311266
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    4.12


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           309.39890      99.15561      12.99110                     FRW       338.19855      46.64493       33.21377
SYSTOLIC          99.15561     639.10736     -44.16258                  SYSTOLIC      46.64493    1306.57246      -34.39855
CHOLSTRL          12.99110     -44.16258    1771.68492                  CHOLSTRL      33.21377     -34.39855     2824.53986


POOLED VARIANCE-COVARIANCE MATRIX                                       POOLED CORRELATION MATRIX
   FRW           310.67519      96.82854      13.88729                     FRW         1.00000       0.21244        0.01848
SYSTOLIC          96.82854     668.68674     -43.72988                  SYSTOLIC       0.21244       1.00000       -0.03966
CHOLSTRL          13.88729     -43.72988    1818.34324                  CHOLSTRL       0.01848      -0.03966        1.00000


                                              SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)      DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      49       45     4     439.75455      664.91667     113.53333    111.25000    -2.2833    -0.01534     0.02493   -26.46305
AT EXAM NO.4     231      221    10     332.85944      380.32222     106.30769    116.90000    10.5923     0.02949     0.01833    -5.07585
AT EXAM NO.6     245      233    12     262.42922      214.62879     106.55365     97.91667    -8.6370    -0.03770     0.01860    -1.51125

SYSTOLIC

AT EXAM NO.2      49       45     4     525.47273      667.66667     153.73333    169.50000    15.7667     0.06280     0.02428   -26.46305
AT EXAM NO.4     231      221    10     761.11613      949.61111     153.04525    161.50000     8.4548     0.00543     0.01211    -5.07585
AT EXAM NO.6     245      233    12     544.96078     1772.87879     148.93133    158.83333     9.9020     0.02037     0.01223    -1.51125

CHOLSTRL

AT EXAM NO.2      49       45     4    1269.43434     5984.91667     247.55556    316.25000    68.6944     0.05540     0.01392   -26.46305
AT EXAM NO.4     231      221    10    1615.59564     2799.11111     260.36199    246.00000   -14.3620    -0.00855     0.00793    -5.07585
AT EXAM NO.6     245      233    12    2014.95505     1983.42424     270.95708    264.16667    -6.7904    -0.00275     0.00660    -1.51125


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    17.75
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.60
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     6.23
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                   TABLE 23-B-10.8
                         THIS ANALYSIS IS FOR DEATH FROM ALL CAUSES
                          WOMEN   66-69   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 241          NUMBER OF CASES (N1) =  19          TOTAL NUMBER BEFORE EXCLUSIONS =  352

                 AVG X(1)        AVG X(0)      DIFF        CHI SQ.      STND DEV          DISCRIMINANT          STANDARD ERROR       T
                 (CASES)        (NON-CASES)                             OF VARIABLE       COEFFICIENT           OF COEFFICIENT
1     FRW       106.63158       105.36515     1.26643        0.08       18.74077          -0.01170075           0.01342158        -0.872
2  SYSTOLIC     171.42105       152.12863    19.29242        8.38       27.96870           0.02748503           0.00891977         3.081
3  CHOLSTRL     247.78947       267.94606   -20.15658        3.52       45.10980          -0.01108466           0.00534295        -2.075
  INTERCEPT                                                                               -2.88810701
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =   13.01


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                   VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             333.63870    119.03789   -124.08195                        FRW        598.33824     597.09559      71.24265
SYSTOLIC           119.03789    735.34473     23.35798                     SYSTOLIC      597.09559    1441.65319     273.99142
CHOLSTRL          -124.08195     23.35798   1997.75036                     CHOLSTRL       71.24265     273.99142    2557.09436


POOLED VARIANCE-COVARIANCE MATRIX                                          POOLED CORRELATION MATRIX
   FRW             351.21640    150.78390   -111.11118                        FRW          1.00000       0.28767      -0.13143
SYSTOLIC           150.78390    782.24803     40.00160                     SYSTOLIC        0.28767       1.00000       0.03171
CHOLSTRL          -111.11118     40.00160   2034.89430                     CHOLSTRL       -0.13143       0.03171       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2      0         0     0        0.0            0.0           0.0         0.0          0.0      -0.01534     0.0         0.0
AT EXAM NO.4     45        42     3    342.03949      589.00000     109.90476   104.00000     -5.9048    -0.02683     0.03611     4.58722
AT EXAM NO.6    215       199    16    331.89914      599.58333     104.40704   107.12500      2.7180    -0.00760     0.01451    -4.55679

SYSTOLIC

AT EXAM NO.2      0         0     0        0.0            0.0           0.0         0.0          0.0       0.06280     0.0         0.0
AT EXAM NO.4     45        42     3    679.37282     2929.33333     148.57143   143.33333     -5.2381     0.00573     0.02429     4.58722
AT EXAM NO.6    215       199    16    746.93488     1243.29583     152.87940   176.68750     23.8081     0.03192     0.00963    -4.55679

CHOLSTRL

AT EXAM NO.2      0         0     0        0.0            0.0           0.0         0.0          0.0       0.05540     0.0         0.0
AT EXAM NO.4     45        42     3   1478.10918     4350.33333     258.80952   228.33333    -30.4762    -0.02133     0.01550     4.58722
AT EXAM NO.6    215       199    16   2105.35282     2317.99583     269.87437   251.43750    -18.4369    -0.00929     0.00570    -4.55679


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    0.0
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    2.18
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =   13.49

                                                                                                       * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-B-13.7
                                THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                  WOMEN  62-65   EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 514        NUMBER OF CASES (N1) =  11        TOTAL NUMBER BEFORE EXCLUSIONS =  680

               AVG X(1)      AVG X(0)      DIFF        CHI SQ.      STND DEV       DISCRIMINANT       STANDARD ERROR       T
               (CASES)      (NON-CASES)                            OF VARIABLE     COEFFICIENT        OF COEFFICIENT
1     FRW     103.63636     107.15759    -3.52122        0.43       17.67378       -0.00871706         0.01764185       -0.494
2  SYSTOLIC   145.09091     151.83852    -6.74761        0.73       25.91486       -0.00862670         0.01203775       -0.717
3  CHOLSTRL   269.63636     264.08949     5.54687        0.18       43.04287        0.00286543         0.00708587        0.404
  INTERCEPT                                                                        -2.40949226
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.13


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                 VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW             314.72399     97.12377       9.68356                     FRW        178.27381      58.80159     131.56746
SYSTOLIC           97.12377    674.27553     -53.09893                   SYSTOLIC      58.80159     518.52381     731.48413
CHOLSTRL            9.68356    -53.09893    1841.03683                   CHOLSTRL     131.56746     731.48413    2514.24206


POOLED VARIANCE-COVARIANCE MATRIX                                        POOLED CORRELATION MATRIX
  FRW             312.36235     96.46050      11.79309                     FRW          1.00000       0.21061       0.01550
SYSTOLIC           96.46050    671.57983     -39.51961                   SYSTOLIC       0.21061       1.00000      -0.03543
CHOLSTRL           11.79309    -39.51961    1852.68846                   CHOLSTRL       0.01550      -0.03543       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2       49       49    0     445.06463        0.0          113.34694      0.0         -113.3469    -0.20024    0.00681    52.87544
AT EXAM NO.4      231      227    4     340.17103     206.25000       106.63436    114.25000       7.6156     0.03081    0.02852    -4.37032
AT EXAM NO.6      245      238    7     264.05994     164.28571       106.38235     97.57143      -8.8109    -0.03373    0.02399    -0.65864

SYSTOLIC

AT EXAM NO.2       49       49    0     542.43707        0.0          155.02041      0.0         -155.0204    -0.31203    0.00629    52.87544
AT EXAM NO.4      231      227    4     777.61202     150.33333       153.60352    142.50000     -11.1035    -0.02006    0.01892    -4.37032
AT EXAM NO.6      245      238    7     602.43671     702.61905       149.50000    146.57143      -2.9286    -0.00162    0.01576    -0.65864

CHOLSTRL

AT EXAM NO.2       49       49    0    1898.84779        0.0          253.16327      0.0         -253.1633    -0.16775    0.00331    52.87544
AT EXAM NO.4      231      227    4    1635.78613    4302.91667       259.74009    259.75000       0.0099    -0.00039    0.01235    -4.37032
AT EXAM NO.6      245      238    7    2025.05258    1619.90476       270.48739    275.28571       4.7983     0.00298    0.00855    -0.65864


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = 5563.19
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                                              TABLE 23-B-13.8
                                 THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                     WOMEN  66-69   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 250          NUMBER OF CASES (N1) =  10          TOTAL NUMBER BEFORE EXCLUSIONS =  352

                 AVG X(1)        AVG X(0)      DIFF        CHI SQ.       STND DEV          DISCRIMINANT        STANDARD ERROR      T
                  (CASES)       (NON-CASES)                             OF VARIABLE        COEFFICIENT         OF COEFFICIENT
 1     FRW      109.70000       105.28800     4.41200        0.53        18.72796          -0.00249668          0.01816419      -0.137
 2  SYSTOLIC    169.90000       152.88400    17.01600        3.49        28.25778           0.02247512          0.01194966       1.881
 3  CHOLSTRL    233.20000       267.80400   -34.60400        5.73        44.81858          -0.01770171          0.00726569      -2.436
   INTERCEPT                                                                               -2.14348650
 CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =    9.46


 VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                    VARIANCE-COVARIANCE MATRIX FOR CASES
    FRW           341.69215     144.61544    -107.94579                          FRW       631.11111     431.02778      26.83333
 SYSTOLIC         144.61544     801.06856      28.58598                       SYSTOLIC     431.02778     718.94444     102.70833
 CHOLSTRL        -107.94579      28.58598    2005.58276                       CHOLSTRL      26.83333     102.70833    2105.50000


 POOLED VARIANCE-COVARIANCE MATRIX                                           POOLED CORRELATION MATRIX
    FRW           350.73649     153.56582    -103.73394                          FRW         1.00000       0.29018      -0.12359
 SYSTOLIC         153.56582     798.50219      30.90230                       SYSTOLIC       0.29018       1.00000       0.02440
 CHOLSTRL        -103.73394      30.90230    2008.70517                       CHOLSTRL      -0.12359       0.02440       1.00000


                                               SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)     AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

    FRW

 AT EXAM NO.2      0        0     0        0.0           0.0            0.0          0.0           0.0     -0.20024     0.0          0.0
 AT EXAM NO.4     45       44     1    350.80338         0.0        109.18182    124.00000      14.8182     0.05861     0.06131      4.81898
 AT EXAM NO.6    215      206     9    339.78101     631.11111      104.45631    108.11111       3.6548    -0.00489     0.01900     -3.29661

 SYSTOLIC

 AT EXAM NO.2      0        0     0        0.0           0.0            0.0          0.0           0.0     -0.31203     0.0          0.0
 AT EXAM NO.4     45       44     1    774.06342         0.0        148.72727    126.00000     -22.7273    -0.03836     0.04145      4.81898
 AT EXAM NO.6    215      206     9    806.73306     718.94444      153.77184    174.77778      21.0059     0.02713     0.01245     -3.29661

 CHOLSTRL

 AT EXAM NO.2      0        0     0        0.0           0.0            0.0          0.0           0.0     -0.16775     0.0          0.0
 AT EXAM NO.4     45       44     1   1524.57664         0.0        258.56818    178.00000     -80.5682    -0.04658     0.02653      4.81898
 AT EXAM NO.6    215      206     9   2106.47672    2105.50000      269.77670    239.33333     -30.4434    -0.01481     0.00749     -3.29661


 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     0.0
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     5.37
 CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     8.65
                                                                                                          * DISCRIMINANT COEFFICIENT
                                              TABLE 23-B-13.3
                                 THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                   WOMEN  46-49  EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) =1022        NUMBER OF CASES (N1) =    7        TOTAL NUMBER BEFORE EXCLUSIONS = 1249

                 AVG X(1)      AVG X(0)      DIFF         CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR      T
                  (CASES)     (NON-CASES)                             OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW      94.14286     102.48043    -8.33757          1.56       17.62242        -0.01789613          0.02262371      -0.791
2  SYSTOLIC    118.00000     131.68395   -13.68395          2.69       21.98651        -0.02468895          0.01824614      -1.353
3  CHOLSTRL    242.00000     240.06164     1.93836          0.01       46.20684         0.00288897          0.00828112       0.349
 INTERCEPT                                                                             -0.83832230
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     3.43


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                     VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           311.49497     119.40224      53.91066                          FRW         69.75000      15.75000      251.25000
SYSTOLIC        119.40224     484.46925     130.13984                        SYSTOLIC      15.75000     212.75000      525.75000
CHOLSTRL         53.91066     130.13984    2134.19226                        CHOLSTRL     251.25000     525.75000     2359.25000


POOLED VARIANCE-COVARIANCE MATRIX                                            POOLED CORRELATION MATRIX
  FRW           310.54973     118.99695      54.68227                          FRW          1.00000       0.30712        0.06715
SYSTOLIC        118.99695     483.40681     131.68670                        SYSTOLIC       0.30712       1.00000        0.12962
CHOLSTRL         54.68227     131.68670    2135.07225                        CHOLSTRL       0.06715       0.12962        1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)    AVG X(1)       DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    316      314    2      290.48929     162.00000      104.36943    78.00000     -26.3694    -0.06837    0.04431     7.92399
AT EXAM NO.4    343      342    1      286.78424       0.0          101.48538   113.00000      11.5146     0.04812    0.06139    -9.59533
AT EXAM NO.6    370      366    4      352.59397      39.00000      101.78962    97.50000      -4.2896    -0.00961    0.02842    -3.09111

SYSTOLIC

AT EXAM NO.2    316      314    2      491.24105     288.00000      135.48726   102.00000     -33.4873    -0.04971    0.03415     7.92399
AT EXAM NO.4    343      342    1      505.18444       0.0          130.01754   120.00000     -10.0175    -0.03244    0.04655    -9.59533
AT EXAM NO.6    370      366    4      459.30911     187.66667      129.97814   125.50000      -4.4781    -0.00776    0.02511    -3.09111

CHOLSTRL

AT EXAM NO.2    316      314    2     2119.31427    8450.00000      233.82484   219.00000     -14.8248    -0.00372    0.01539     7.92399
AT EXAM NO.4    343      342    1     1825.36489       0.0          239.48538   258.00000      18.5146     0.01068    0.02382    -9.59533
AT EXAM NO.6    370      366    4     2435.47155     329.00000      245.95082   249.50000       3.5492     0.00211    0.01033    -3.09111


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     7.00
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.07
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.33
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                      TABLE 23-B-13.4
                                      THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                         WOMEN  50-53  EXAMS 2,4, AND 6 POOLED

  NUMBER OF NON-CASES (NO) = 933          NUMBER OF CASES (N1) =  17          TOTAL NUMBER BEFORE EXCLUSIONS = 1151

                AVG X(1)       AVG X(0)      DIFF        CHI SQ.      STND DEV          DISCRIMINANT         STANDARD ERROR        T
                 (CASES)      (NON-CASES)                             OF VARIABLE       COEFFICIENT          OF COEFFICIENT
1     FRW      103.23529      104.29046    -1.05517        0.06      17.58135          0.00226279           0.01459379         0.155
2  SYSTOLIC    131.11765      139.16292    -8.04527        1.77      24.69107         -0.01320081           0.01048183        -1.259
3  CHOLSTRL    245.82353      251.50804    -5.68451        0.29      43.28215         -0.00205443           0.00570596        -0.360
  INTERCEPT                                                                          -1.94515819
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =      1.93


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           307.95807     129.64897      22.09834                       FRW        385.21905     164.27619    -274.75238
SYSTOLIC         129.64897     612.60604     146.28491                    SYSTOLIC      164.27619     413.19762    -135.60238
CHOLSTRL          22.09834     146.28491    1868.68586                    CHOLSTRL     -274.75238    -135.60238    2182.84048

POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
   FRW           309.10389     130.16251      17.69589                       FRW          1.00000       0.29984       0.02325
SYSTOLIC         130.16251     609.64871     142.10438                    SYSTOLIC        0.29984       1.00000       0.13297
CHOLSTRL          17.69589     142.10438    1873.34493                    CHOLSTRL        0.02325       0.13297       1.00000


                                                  SUMMARY OF EXAMS 2,4,AND 6

               NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)       DIFF       BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    323      320     3     357.84952       60.33333     106.90312     93.66667     -13.2365    -0.02909     0.03170    -2.68948
AT EXAM NO.4    300      296     4     310.02785       78.66667     105.16216    107.00000       1.8378     0.00475     0.03096    -2.72769
AT EXAM NO.6    327      317    10     255.66074      559.60000     100.83912    104.60000       3.7609     0.02223     0.02081    -1.96540

SYSTOLIC

AT EXAM NO.2    323      320     3     753.25455        5.33333     145.07500    128.66667     -16.4083    -0.02215     0.02230    -2.68948
AT EXAM NO.4    300      296     4     591.53027      740.66667     138.29392    140.00000       1.7061     0.00200     0.02230    -2.72769
AT EXAM NO.6    327      317    10     490.29743      394.67778     134.00631    128.30000      -5.7063    -0.01443     0.01544    -1.96540

CHOLSTRL

AT EXAM NO.2    323      320     3    2029.73730     3426.33333     246.57500    272.66667      26.0917     0.01529     0.01313    -2.68948
AT EXAM NO.4    300      296     4    1894.37595     3784.33333     252.06081    233.50000     -18.5608    -0.00971     0.01151    -2.72769
AT EXAM NO.6    327      317    10    1682.12261     1372.67778     255.97161    242.70000     -13.2716    -0.00755     0.00797    -1.96540

CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     3.41
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.76
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     2.58
                                                                                                       * DISCRIMINANT COEFFICIENT
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                                                    TABLE 23-B-13.5
                                       THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                          WOMEN  54-57  EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) = 862          NUMBER OF CASES (N1) =  13          TOTAL NUMBER BEFORE EXCLUSIONS = 1057

                AVG X(1)      AVG X(0)      DIFF          CHI SQ.      STND DEV        DISCRIMINANT        STANDARD ERROR          T
                (CASES)      (NON-CASES)                              OF VARIABLE      COEFFICIENT         OF COEFFICIENT
1      FRW     112.38462     106.11717     6.26745          1.61       17.66441         0.00858615          0.01672942          0.513
2  SYSTOLIC    161.00000     143.51392    17.48608          5.83       25.91529         0.02455036          0.01144623          2.145
3  CHOLSTRL    258.46154     260.92575    -2.46422          0.04       46.71831        -0.00250035          0.00600719         -0.416
 INTERCEPT                                                                             -8.22098924
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     6.27


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW           312.62601    148.44254     26.35803                                FRW        260.94167     192.43333     114.72500
SYSTOLIC         148.44254    663.86113    112.82704                              SYSTOLIC     192.43333    1336.55000      70.55000
CHOLSTRL          26.35803    112.82704   2189.12450                              CHOLSTRL     114.72500      70.55000    1622.22500


PCOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW           312.03125    148.94876     27.37491                                FRW          1.00000       0.32537       0.03317
SYSTOLIC         148.94876    671.60208    112.34053                              SYSTOLIC       0.32537       1.00000       0.09279
CHOLSTRL          27.37491    112.34053   2182.60091                              CHOLSTRL       0.03317       0.09279       1.00000


                                                   SUMMARY OF EXAMS 2,4,AND 6

                   NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2        292      288     4      303.79714      338.25000     107.77778    106.75000      -1.0278    -0.02068    0.03011    -8.33651
AT EXAM NO.4        295      289     6      318.29414      302.40000     106.31834    122.00000      15.6817     0.04985    0.02438   -10.16154
AT EXAM NO.6        288      285     3      315.80017       41.33333     104.23509    100.66667      -3.5684    -0.03913    0.03553    -5.05916

SYSTOLIC

AT EXAM NO.2        292      288     4      758.69991     1357.33333     149.39583    176.00000      26.6042     0.03847    0.01901    -8.33651
AT EXAM NO.4        295      289     6      646.66263     1675.76667     143.08651    149.83333       6.7468    -0.00149    0.01702   -10.16154
AT EXAM NO.6        288      285     3      585.46126      457.33333     138.00351    163.33333      25.3298     0.05708    0.02610    -5.05916

CHOLSTRL

AT EXAM NO.2        292      288     4     2144.29728     2264.91667     254.82639    257.25000       2.4236     0.00007    0.01089    -8.33651
AT EXAM NO.4        295      289     6     2426.62699     1864.70000     261.64014    269.50000       7.8599     0.00307    0.00847   -10.16154
AT EXAM NO.6        288      285     3     1993.57764       52.00000     266.36491    238.00000     -28.3649    -0.01620    0.01310    -5.05916


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     4.12
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     4.68
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     6.07
                                                                                                     * DISCRIMINANT COEFFICIENT
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                                                       TABLE 23-B-13.6
                                          THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                             WOMEN  58-61  EXAMS 2,4, AND 6 POOLED

   NUMBER OF NON-CASES (NO) = 772          NUMBER OF CASES (N1) =   6          TOTAL NUMBER BEFORE EXCLUSIONS =  985

                AVG X(1)       AVG X(0)      DIFF          CHI SQ.      STND DEV          DISCRIMINANT          STANDARD ERROR        T
                (CASES)       (NON-CASES)                               OF VARIABLE       COEFFICIENT           OF COEFFICIENT
1      FRW     108.16667      106.73834     1.42832          0.04      18.48081           0.01057177            0.02336975        0.452
2  SYSTOLIC    139.83333      149.19430    -9.36097          0.72      26.89775          -0.01489851            0.01606527       -0.927
3  CHOLSTRL    255.00000      263.08808    -8.08808          0.19      45.17871          -0.00331682            0.00910077       -0.364
  INTERCEPT                                                                              -2.98094677
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.08


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                             VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW          342.44219     153.97860     -33.02618                                   FRW       168.16667     193.25000    -334.50000
SYSTOLIC        153.97860     724.22399      65.45459                                SYSTOLIC     193.25000     582.16667    -229.50000
CHOLSTRL        -33.02618      65.45459    2047.00996                                CHOLSTRL    -334.50000    -229.50000     908.00000


POOLED VARIANCE-COVARIANCE MATRIX                                                    POOLED CORRELATION MATRIX
   FRW          341.54037     154.18182     -34.58620                                   FRW         1.00000       0.31017      -0.04142
SYSTOLIC        154.18182     723.48890      63.92831                                SYSTOLIC       0.31017       1.00000       0.05261
CHOLSTRL        -34.58620      63.92831    2041.11599                                CHOLSTRL      -0.04142       0.05261       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO     N1   VARIANCE X(0)  VARIANCE X(1)   AVG X(0)    AVG X(1)        DIFF        BETA*     STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2    249      249     0      374.63156        0.0         107.13253      0.0       -107.1325    -0.27995     0.00346    40.81136
AT EXAM NO.4    263      260     3      319.78165      331.00000     107.95385     96.00000    -11.9538    -0.03121     0.03418    -0.87885
AT EXAM NO.6    266      263     3      334.37393        5.33333     105.16350    120.33333     15.1698     0.04961     0.03381    -5.51739

SYSTOLIC

AT EXAM NO.2    249      249     0      768.88810        0.0         152.49799      0.0       -152.4980    -0.15600     0.00239    40.81136
AT EXAM NO.4    263      260     3      840.28595      800.33333     149.27692    133.66667    -15.6103    -0.01279     0.02109    -0.87885
AT EXAM NO.6    266      263     3      567.21351      364.00000     145.98479    146.00000      0.0152    -0.00689     0.02646    -5.51739

CHOLSTRL

AT EXAM NO.2    249      249     0     2056.12858        0.0         257.12851      0.0       -257.1285    -0.15119     0.00142    40.81136
AT EXAM NO.4    263      260     3     1902.71761     1452.00000     263.02308    272.00000      8.9769     0.00527     0.01333    -0.87885
AT EXAM NO.6    266      263     3     2181.01875      364.00000     268.79468    238.00000    -30.7947    -0.01398     0.01276    -5.51739


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 = *******
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =    1.84
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =    3.51
                                                                                                          * DISCRIMINANT COEFFICIENT
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                                              TABLE 23-8-13.1
                                 THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                     WOMEN  38-41   EXAMS 2,4, AND 6 POOLED


  NUMBER OF NON-CASES (NO) = 860        NUMBER OF CASES (N1) =   4        TOTAL NUMBER BEFORE EXCLUSIONS = 1042

                AVG X(1)      AVG X(0)     DIFF        CHI SQ.      STND DEV        DISCRIMINANT       STANDARD ERROR        T
                (CASES)     (NON-CASES)                            OF VARIABLE      COEFFICIENT        OF COEFFICIENT
1     FRW       94.75000      98.57326   -3.82326        0.22      16.25135        -0.02411459          0.03233520      -0.746
2  SYSTOLIC    128.00000     121.58721    6.41279        0.61      16.36066         0.03016982          0.03225306       0.935
3  CHOLSTRL    220.75000     214.04767    6.70233        0.12      39.27256         0.00358641          0.01284690       0.279
 INTERCEPT                                                                         -7.58436413
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     1.23


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                  VARIANCE-COVARIANCE MATRIX FOR CASES
  FRW           263.72613      79.30410      40.00459                       FRW       427.00000     185.00000     288.00000
SYSTOLIC         79.30410     267.41522      70.88030                     SYSTOLIC    185.00000     377.33333     228.33333
CHOLSTRL         40.00459      70.88030    1545.39555                     CHOLSTRL    288.00000     228.33333     230.33333


POOLED VARIANCE-COVARIANCE MATRIX                                         POOLED CORRELATION MATRIX
  FRW           264.10628      79.55019      40.58199                       FRW         1.00000       0.29919       0.06359
SYSTOLIC         79.55019     267.67115      71.24689                     SYSTOLIC      0.29919       1.00000       0.11089
CHOLSTRL         40.58199      71.24689    1542.33370                     CHOLSTRL      0.06359       0.11089       1.00000


                                                 SUMMARY OF EXAMS 2,4,AND 6

                 NO + N1    NO    N1   VARIANCE X(0)  VARIANCE X(1)    AVG X(0)     AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

  FRW

AT EXAM NO.2     396      395     1     262.95466       0.0          99.21266     91.00000      -8.2127    -0.06066     0.06548   -13.54102
AT EXAM NO.4     369      366     3     278.78468     427.00000      98.44536     96.00000      -2.4454    -0.01370     0.03663    -5.54686
AT EXAM NO.6      99       99     0     210.74232       0.0          96.49495      0.0         -96.4949    -0.44554     0.00696    66.43605

SYSTOLIC

AT EXAM NO.2     396      395     1     276.06654       0.0         123.33671    142.00000      18.6633     0.08670     0.06394   -13.54102
AT EXAM NO.4     369      366     3     272.91630     377.33333     120.28415    123.33333       3.0492     0.01477     0.03727    -5.54686
AT EXAM NO.6      99       99     0     212.14471       0.0         119.42424      0.0        -119.4242    -0.45946     0.00696    66.43605

CHOLSTRL

AT EXAM NO.2     396      395     1    1597.58680       0.0         212.80000    228.00000      15.2000     0.00830     0.02507   -13.54102
AT EXAM NO.4     369      366     3    1642.89890     230.33333     215.81967    218.33333       2.5137     0.00127     0.01471    -5.54686
AT EXAM NO.6      99       99     0     972.41517       0.0         212.47475      0.0        -212.4747    -0.20802     0.00325    66.43605


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =     2.24
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     0.24
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 = *******
                                                                                                   * DISCRIMINANT COEFFICIENT
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                                                   TABLE 23-B-13.2
                                    THIS ANALYSIS IS FOR NON-CARDIOVASCULAR DEATHS
                                         WOMEN  42-45   EXAMS 2,4, AND 6 POOLED


   NUMBER OF NON-CASES (NO) =1115          NUMBER OF CASES (N1) =   4         TOTAL NUMBER BEFORE EXCLUSIONS = 1340

                AVG X(1)        AVG X(0)     DIFF          CHI SQ.       STND DEV          DISCRIMINANT         STANDARD ERROR      T
                 (CASES)      (NON-CASES)                              OF VARIABLE         COEFFICIENT          OF COEFFICIENT
1      FRW     116.75000      100.01883    16.73117           3.84      17.04581           0.04062093           0.03089082        1.315
2  SYSTOLIC    151.00000      126.05561    24.94439           6.36      19.75051           0.05571905           0.02668172        2.088
3  CHOLSTRL    214.75000      225.86996   -11.11996           0.29      41.18921          -0.01090863           0.01225400       -0.890
 INTERCEPT                                                                              -15.34835025
CHI SQ. VALUE FOR GENERALIZED DISTANCE( 3 DF) =     8.73


VARIANCE-COVARIANCE MATRIX FOR NON-CASES                                          VARIANCE-COVARIANCE MATRIX FOR CASES
   FRW             290.58299     101.89077       65.65136                            FRW        264.50000    -299.00000    1357.00000
SYSTOLIC           101.89077     390.12939       85.32457                         SYSTOLIC     -299.00000     338.00000   -1534.00000
CHOLSTRL            65.65136      85.32457     1691.81600                         CHOLSTRL     1357.00000   -1534.00000    6962.00000


POOLED VARIANCE-COVARIANCE MATRIX                                                 POOLED CORRELATION MATRIX
   FRW             290.55956     101.53059       66.81160                            FRW          1.00000       0.30158       0.09516
SYSTOLIC           101.53059     390.08255       83.86965                         SYSTOLIC       0.30158       1.00000       0.10310
CHOLSTRL            66.81160      83.86965     1696.55112                         CHOLSTRL       0.09516       0.10310       1.00000


                                                     SUMMARY OF EXAMS 2,4,AND 6

                NO + N1    NO     N1    VARIANCE X(0)   VARIANCE X(1)    AVG X(0)    AVG X(1)        DIFF       BETA*    STND ERR B  INTERCEPT

   FRW

AT EXAM NO.2     366      364     2       274.23948       264.50000       99.87088   128.50000     28.6291     0.07765     0.04561   -22.96278
AT EXAM NO.4     380      379     1       316.40153         0.0          100.89446   115.00000     14.1055     0.04235     0.05982    -6.66065
AT EXAM NO.6     373      372     1       280.26840         0.0           99.27151    95.00000     -4.2715    -0.01712     0.06191    -6.80307

SYSTOLIC

AT EXAM NO.2     366      364     2       470.87151       338.00000      127.58516   173.00000     45.4148     0.08083     0.03444   -22.96278
AT EXAM NO.4     380      379     1       365.46173         0.0          125.79156   134.00000      8.2084     0.01191     0.05569    -6.66065
AT EXAM NO.6     373      372     1       336.26143         0.0          124.82796   124.00000     -0.8280    -0.00314     0.05708    -6.80307

CHOLSTRL

AT EXAM NO.2     366      364     2      1467.51134      6962.00000      221.23077   215.00000     -6.2308    -0.01493     0.01874   -22.96278
AT EXAM NO.4     380      379     1      1836.66662         0.0          226.38786   179.00000    -47.3879    -0.02662     0.02339    -6.66065
AT EXAM NO.6     373      372     1      1763.70026         0.0          229.88172   250.00000     20.1183     0.01225     0.02421    -6.80307


CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 2 =    11.91
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 4 =     1.95
CHI SQ. FOR GENERALIZED DISTANCE FOR EXAM NO. 6 =     0.32
                                                                                                          * DISCRIMINANT COEFFICIENT
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PREVIOUS SECTIONS

Section 11. Incidence of Myocardial Infarction by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 12. Incidence of Angina Pectoris uncomplicated by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 13. Incidence of Sudden Death from Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 14. Incidence of Non-Sudden Death from Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 15. Incidence of Cerebrovascular Accident by sex, age and level of characteristic at exam for 22 characteristics
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Section 16. Incidence of Brain Infarction by sex, age and level of characteristic at exam for 22 characteristics
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Section 17. Incidence of Intermittent Claudication by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 18. Incidence of Congestive Heart Failure by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

Section 19. Incidence of Death by sex, age and level of characteristic at exam for 22 characteristics
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Section 20. Incidence of Death from Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
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Section 21. Incidence of Death from Cardiovascular Disease by sex, age and level of characteristic at exam for 22 characteristics
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Section 22. Incidence of Death from Cause other than Cardiovascular Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

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PREVIOUS SECTIONS

Section 1. Introduction and general background
Tavia Gordon and William B. Kannel

Section 2. Follow-up to the eighth examination
Tavia Gordon

Section 3. Some characteristics of the Framingham cohort on the first 7 examinations by broad age groups
Christine Cole, Esther Allen, Manning Feinleib

Notes: Dewey Shurtleff, William P. Castelli,
Lloyd E. Hawes, and Patricia M. McNamara

Section 4. Some characteristics of the Framingham cohort on the first 7 examinations by 5-year age groups
Dewey Shurtleff

Section 5. Bivariate correlations among some characteristics of the Framingham cohort at Exam 2
Dewey Shurtleff

Section 6. Smoothed average annual incidence rates by age at exam preceding event, and sex
Manning Feinleib

Section 7. Average two-year incidence rates by age at exam preceding event and sex, with total number of events and total population at risk
Manning Feinleib

Section 8. Two-year incidence by exam interval by age at Exam 1 and sex
Manning Feinleib

Criteria: William B. Kannel, William P. Castelli, and
Patricia M. McNamara

Section 9. Population alive with specified events by sex, age and level of characteristic at exam
Dewey Shurtleff

Section 10. Incidence of Coronary Heart Disease by sex, age and level of characteristic at exam for 22 characteristics
Dewey Shurtleff

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